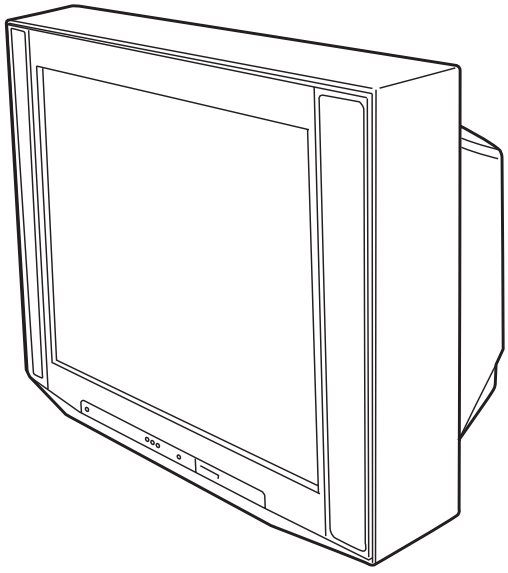
Self Diagnosis Supported model

SERVICE MANUAL AG-3F CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-HS29M61	RM-997	ES	SCC-M03-A
KV-HS29M90	RM-997	HK	SCC-P96-C
KV-HS29M91	RM-997	ME	SCC-P98-C
KV-HS34M61	RM-997	GE	SCC-P97-A
KV-HS34M61	RM-997	S	SCC-M01-A
KV-HS34M90	RM-997	HK	SCC-P96-A

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-HS34M91	RM-997	ME	SCC-P98-A
KV-HS38M61	RM-997	GE	SCC-P97-B
KV-HS38M61	RM-997	S	SCC-M01-B
KV-HS38M90	RM-997	HK	SCC-P96-B
KV-HS38M91	RM-997	ME	SCC-P98-B

RM-997



KP-HS29M61/M90/M91,
KP-HS34M61/M90/M91,
KP-HS38M61/M90/M91

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

	KV-HS29M61/M91 KV-HS34M61/M91	KV-HS29M90 KV-HS34M90	KV-HS38M61/M90/M91
Power requirements	110-240 V AC, 50/60 Hz	220V AC, 50Hz	220-240 V AC, 50/60 Hz
Power consumption (W)	Indicated on the rear of the TV.		
Television system	B/G, I, D/K, M		
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58		
Stereo system	NICAM Stereo/Bilingual B/G, I; A2 Stereo (German) B/G		
Channel coverage			
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41		
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41		
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39		
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84		
(Antenna)	75-ohm external terminal		
Audio output (Speaker)	15W + 15W (12W + 12W : 7 % distortion)		
Number of terminal			
(Video)	Input: 4 Output: 1	Phono jacks; 1 Vp-p, 75 ohms	
♪ (Audio)	Input: 4 Output: 1	Phono jacks; 500 mVrms	
(S Video)	Input: 2	Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms	
(Component Video)	Input: 2	Phone jacks Y : 1 Vp-p, 75 ohms, sync negative C_B : 0.7 Vp-p, 75 ohms C_R : 0.7 Vp-p, 75 ohms Audio : 500 mVrms	
(R/G/B/HD/ VD Video)	Input: 1	Phone jacks R : 0.7 Vp-p, 75 ohms B : 0.7 Vp-p, 75 ohms G : 0.7 Vp-p, 75 ohms HD : 0.7 Vp-p, 75 ohms VD : 0.7 Vp-p, 75 ohms	
(Headphones)	Output: 1	Stereo minijack	
Picture tube	29 inch	34 inch	38 inch
Tube size (cm) (Measured diagonally)	72	86	97
Dimension (w/h/d, mm)	772 × 587 × 562	898 × 678 × 581	994 × 755 × 623
Mass (kg)	58	86	112

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

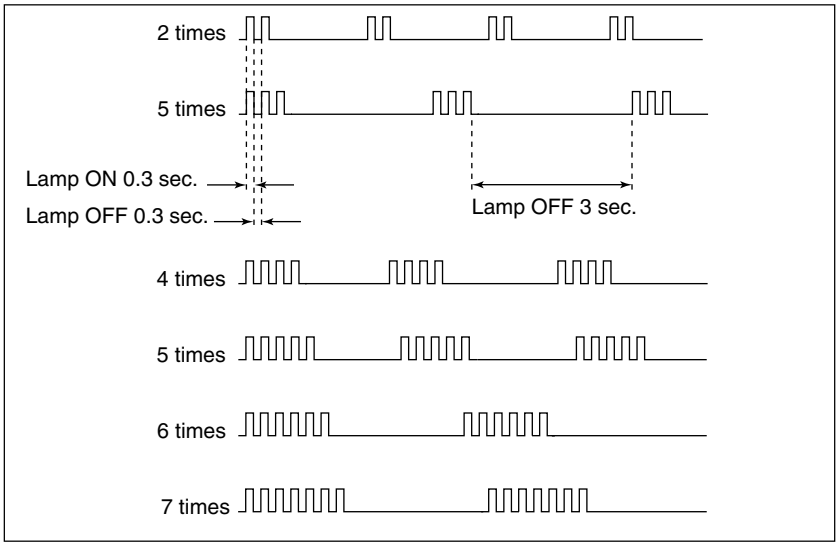
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

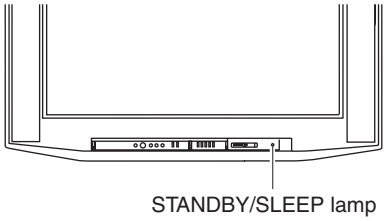
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F1601 (F1 Board)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP) or	2 times	002:000 or 002:001~255	• H.OUT Q5030 is shorted. • Q5003(PWM-OUT) is shorted.	• Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	• PH 6502 faulty. • 135V Line is overvoltage supplied. (D board)	• Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001~225	• V.OUT IC5004 faulty D5001 faulty D5002 faulty D5035 faulty D5036 faulty R5173 or R5172 open.	• Vertical deflection pulse is stopped. • Vertical size is too amall. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC9001,9002, 9003 are faulty. (C1 board) • IC4301 (E board) are faulty. • No connection E board to C1 board.	• Power line is shorted or power supply is stopped. • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Horizontal deflection failure	6 times	006:000 or 006:001~225	• C5064 is open circuit. • CN5002(D board) is disconnected. • HOP circuit is failure. • -10.2V Power Supply or IC2601 or IC2602 are failure. • CN6101 (D board) is disconnected	• H pulse output is too high. • Low B (-10.5V) is too Low.
• Audio Protection	7 times	007:000 or 007:001~22500	• Power Supply fails. • IC2003, IC1204 faulty.	• There is picture but speaker does not release sound.
• Micro reset	-	101:00 or 101:001~225	• Discharge CRT (C1 Board) • Static discharge • External noise	• Power is shut down shorlty, after this return back tonormal • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.
The symptom that is diagnosed first by the microcontroller is displayed on the screen.
Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



• One flash count is not used for self-diagnostic.



Diagnostic Item	Flash Count*
+B overcurrentovervoltage	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protecter	6 times
Audio protection	7 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

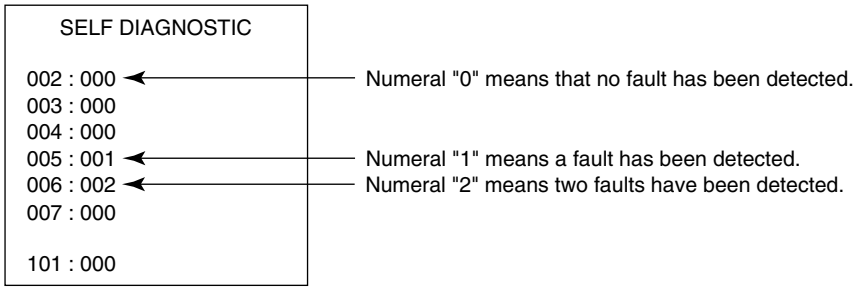
4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel 5 ➡ Sound volume - ➡ Power ON
⇧
Note that this differs from entering the service mode (mode volume +).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

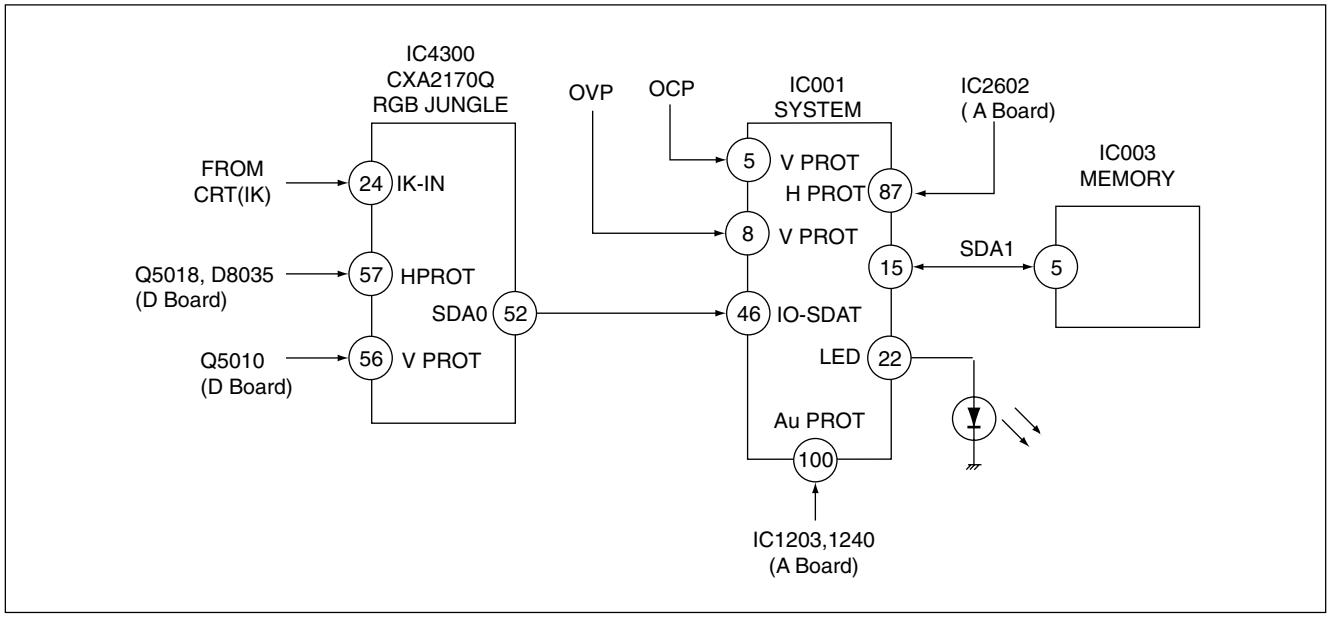
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel 8 ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)

Occurs when an overcurrent on the +B(135) line is detected by Q5004(D board). If Q6610(D board) go to ON, the voltage to pin 5 of IC001(A board) go to UP. The unit will automatically turn off.

+B overvoltage (OVP)

Occurs when an overdrive on the +B(135V) line is detected by D6635(D board), Q6611 and Q6619. If Q6611 go to ON, the voltage to pin 8 of IC001 go to UP. The unit will automatically turn off.

Vertical deflection failure

Occurs when an absence of the vertical deflection pulse is detected by Q5010. Shut down the power supply.

White balance failure

If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4300. TV will stay on, but there will be no picture.

High voltage undervoltage protection (HV UVP)

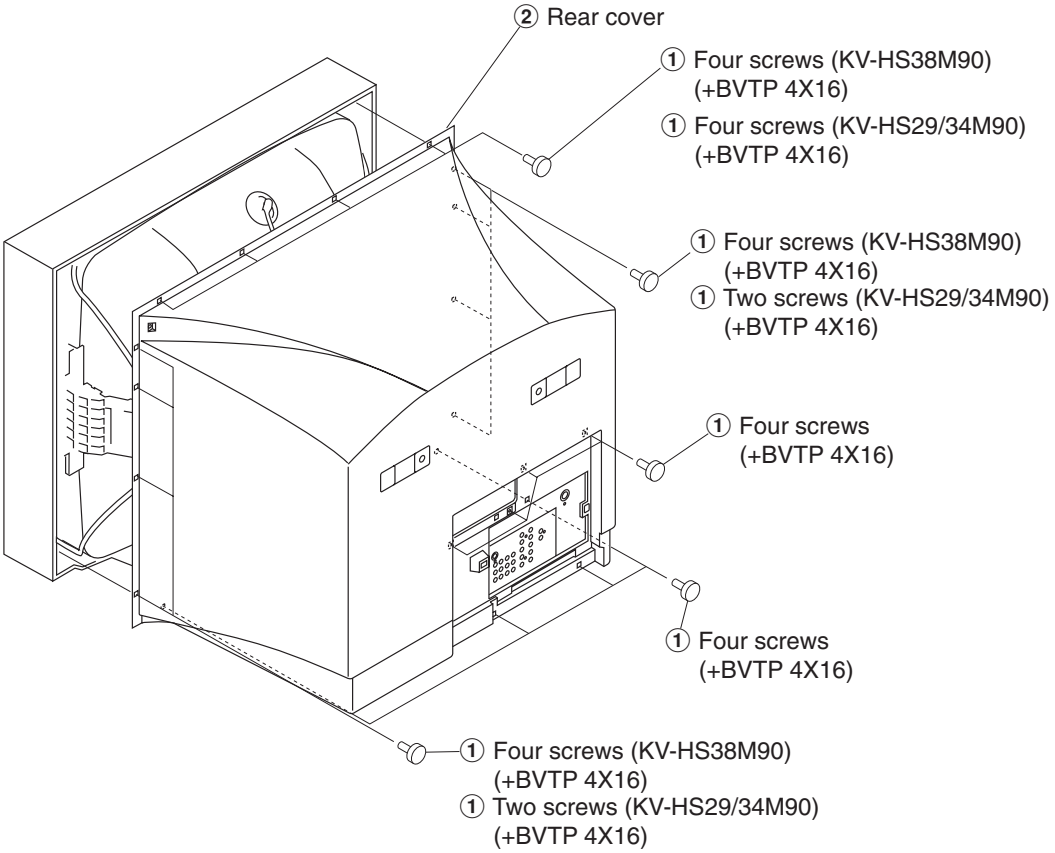
High-voltage undervoltage conditions may indicate defective transformer, rectifiers, CRT or fault within the power supply circuit. When high-voltage drops for any reason, so does the voltage at T8001.17 and buffer IC8004.7. The malfunction is detected by comparator IC8006A that generates high logic signal labeled H PROT. This signal is sent via D8014 to the H prot that opens contacts of the AC relay RY6501 and turns off main power.

Audio Protector

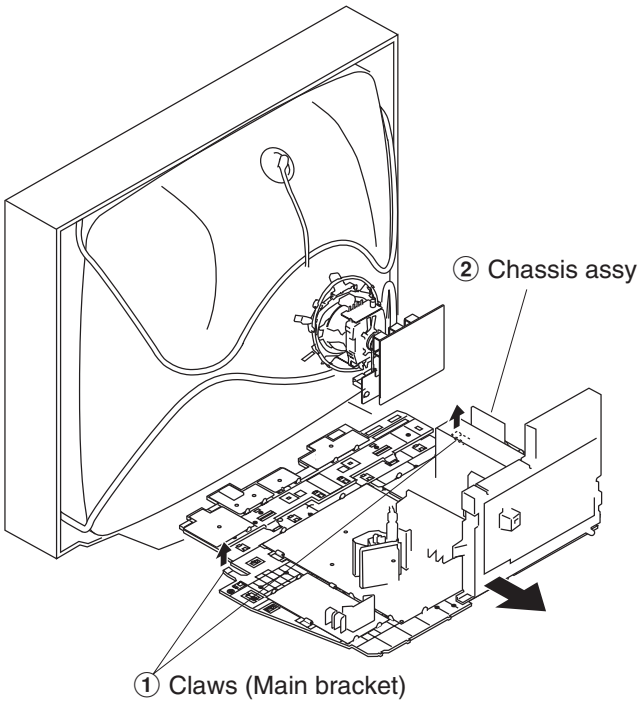
If the Audio out line became DC. This error will be detected by Q1211, Q1209, and Q1210.The unit will automatically turn off.

SECTION 1
DISASSEMBLY

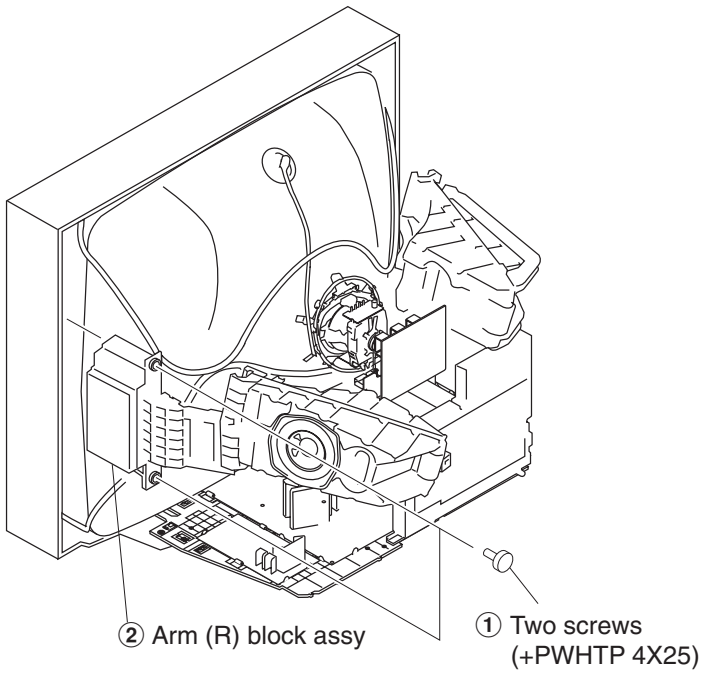
1-1. REAR COVER REMOVAL



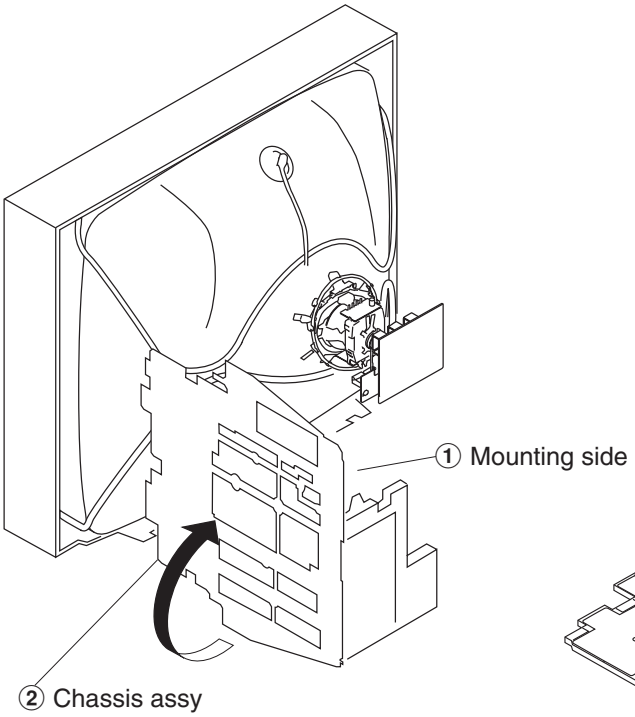
1-2. SPEAKER BOX REMOVAL



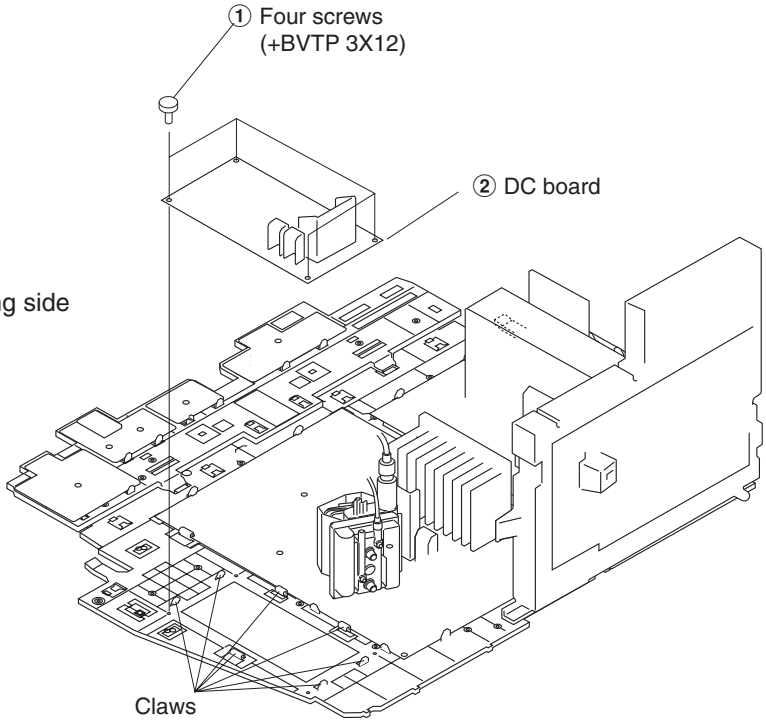
1-3. CHASSIS ASSY REMOVAL



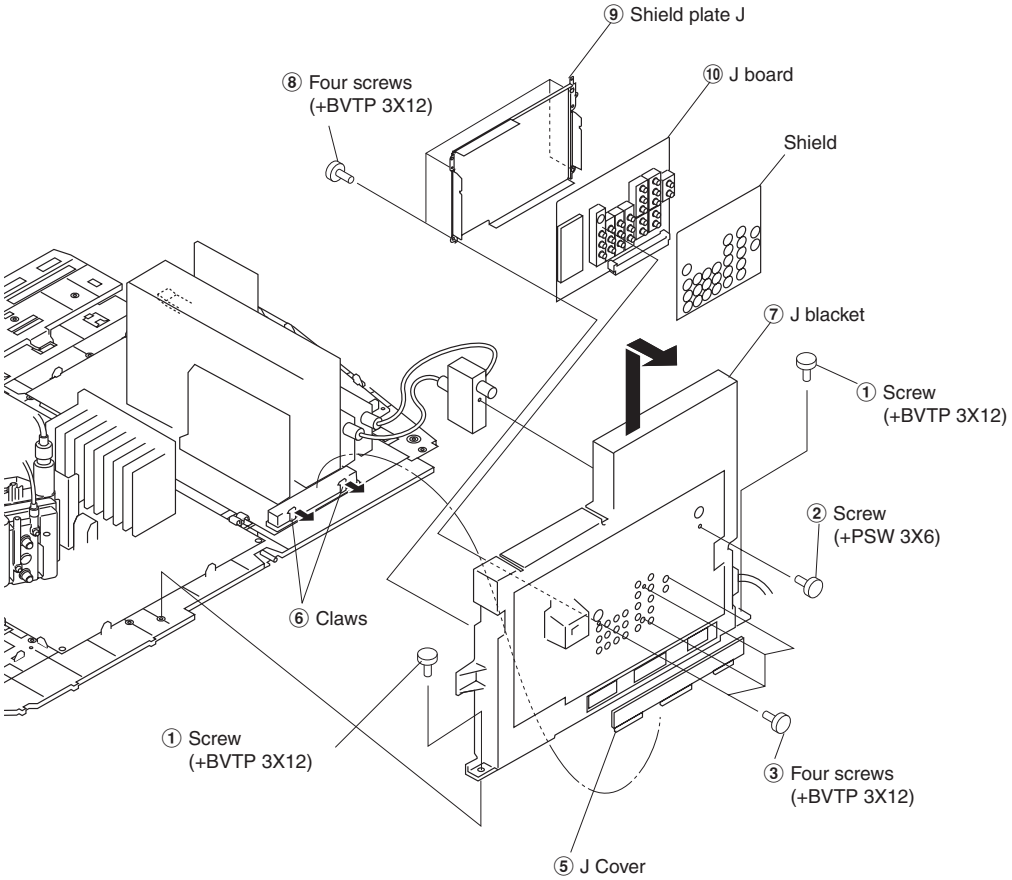
1-4. SERVICE POSITION



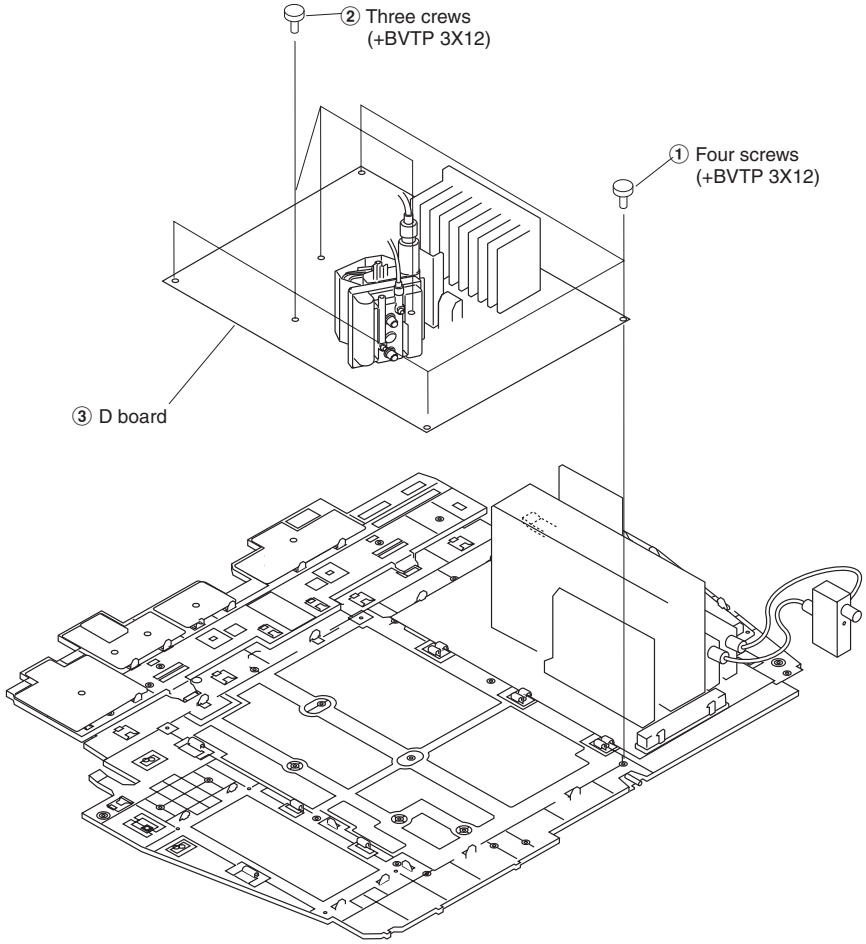
1-5. DC BOARD REMOVAL



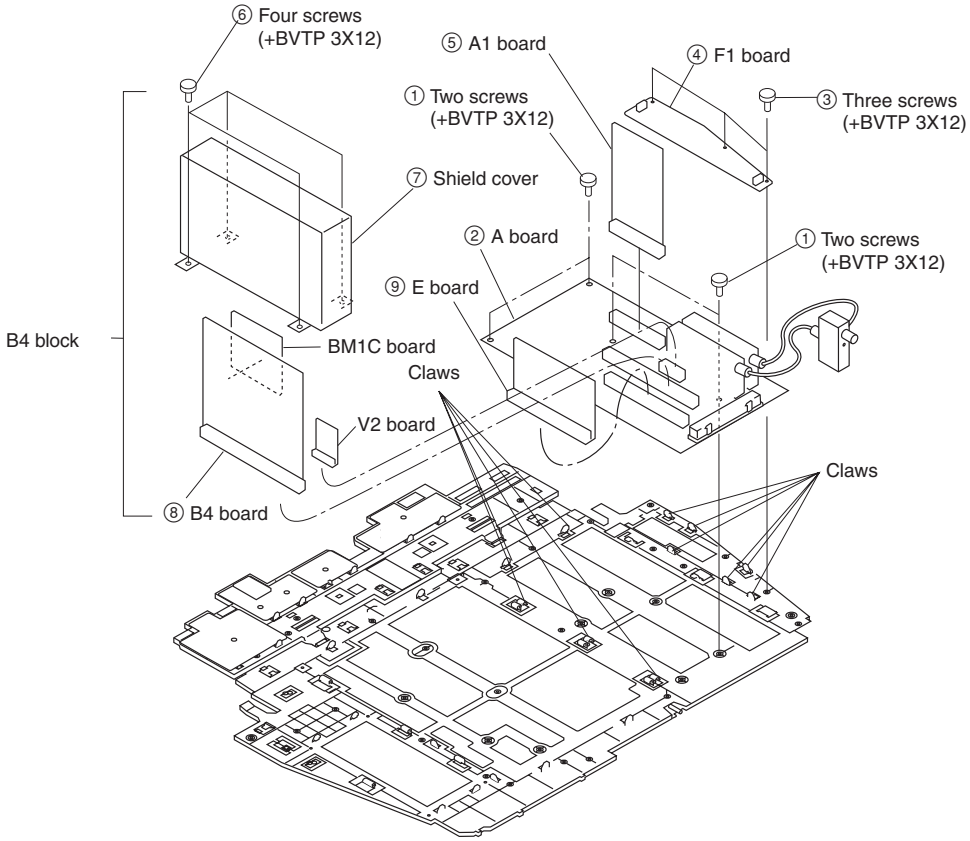
1-6. J BOARD REMOVAL



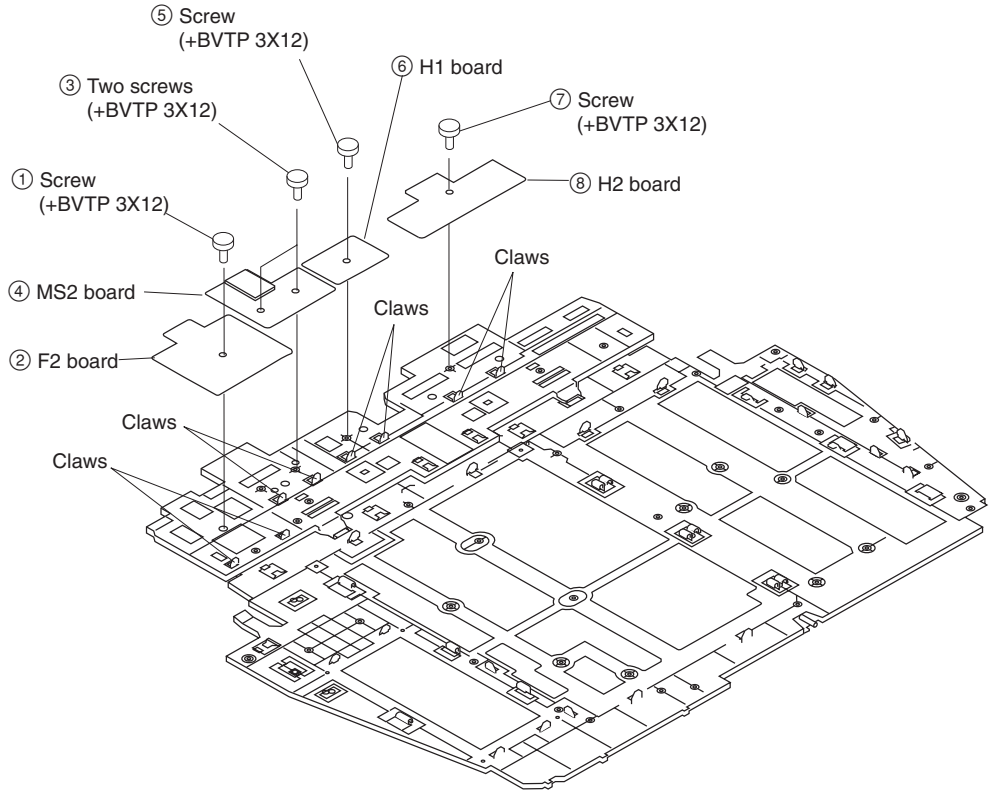
1-7. D BOARD REMOVAL



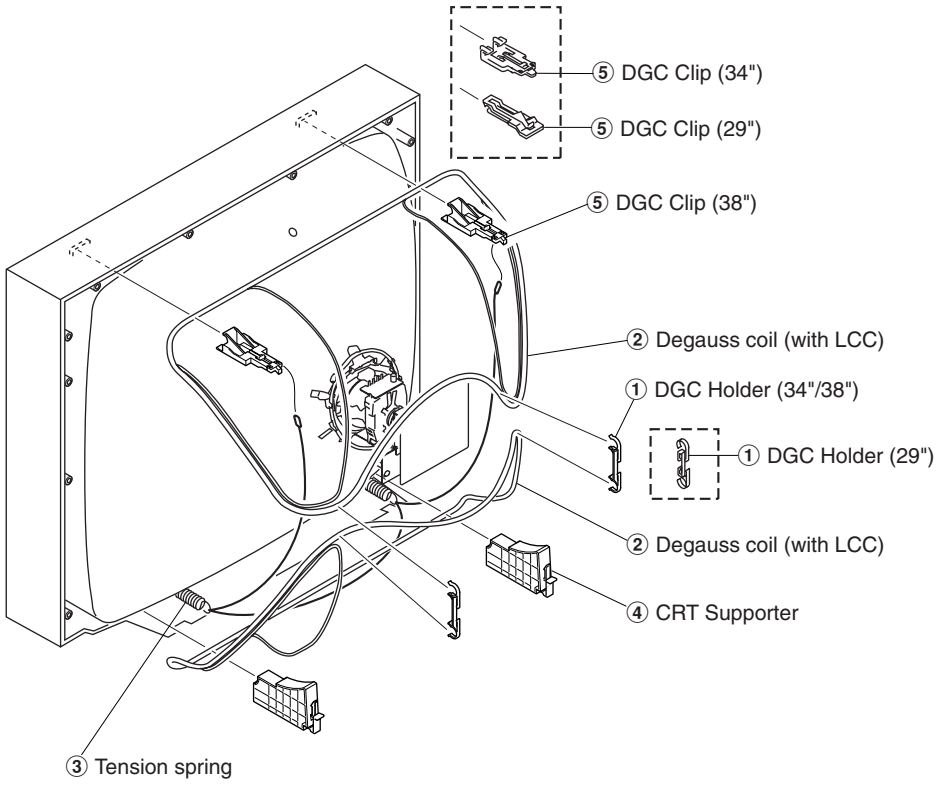
1-8. A, A1, V2 AND E BOARDS, AND B4 BLOCK REMOVAL



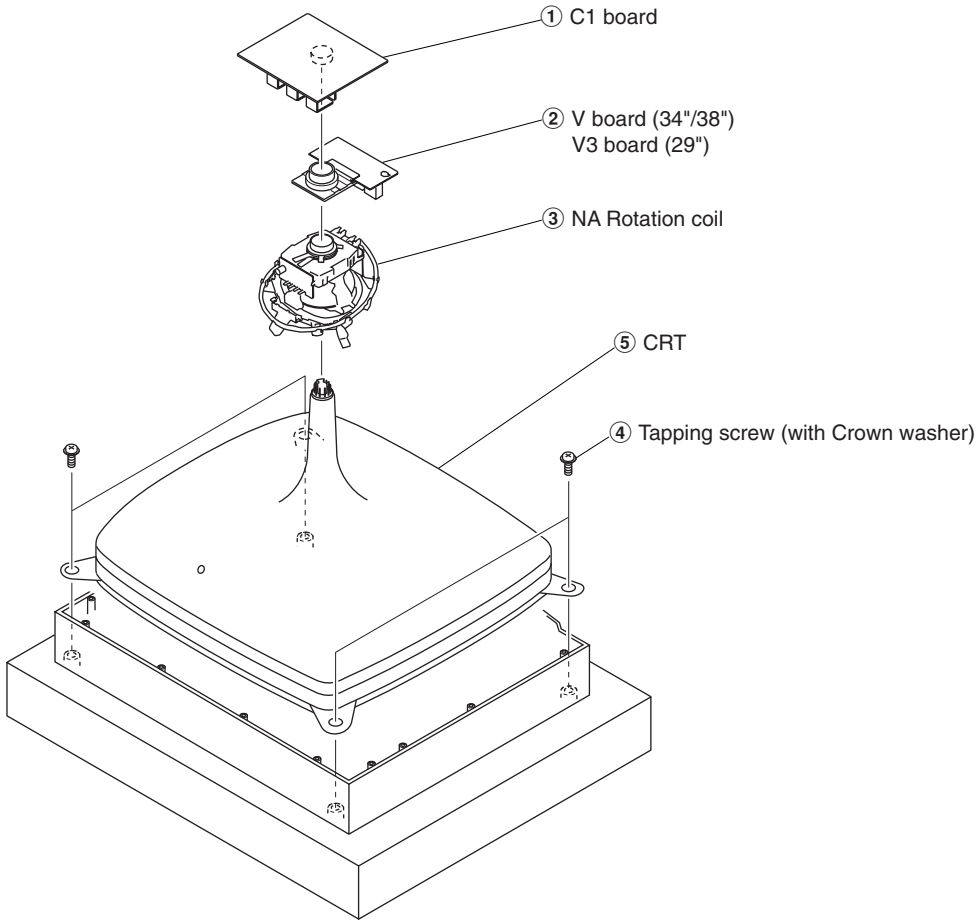
1-9. H1, H2, MS2, AND F2 BOARDS REMOVAL



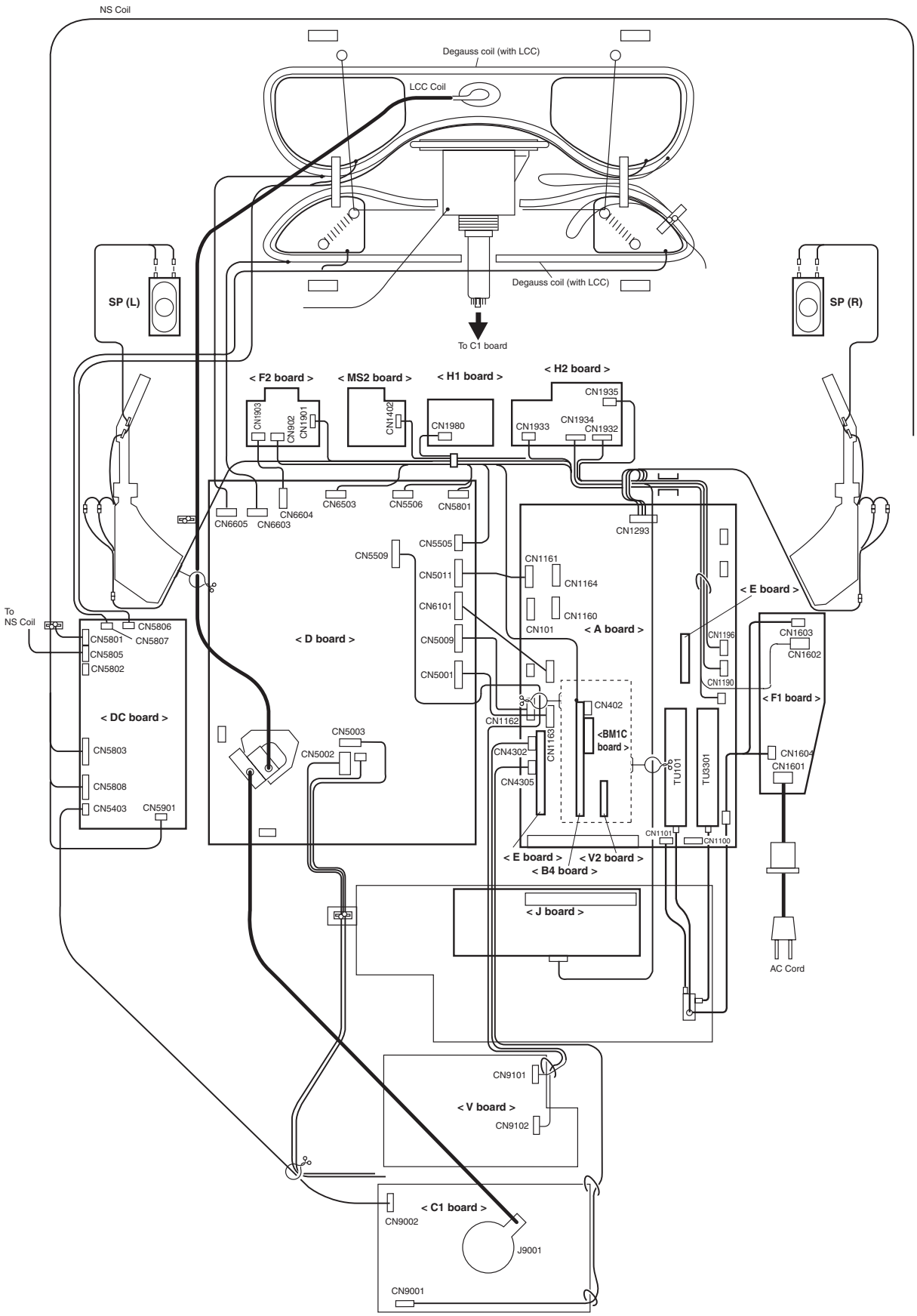
1-10. PICTURE TUBE REMOVAL (1)



1-11. PICTURE TUBE REMOVAL (2)



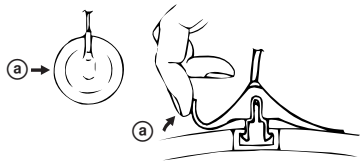
1-12. HARNESS RANNING



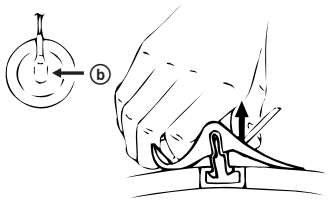
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

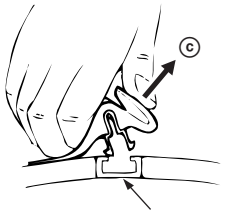
• REMOVING PROCEDURES



① Tern up one side of the rubber cap in the direction indicated by the arrow ⓐ.



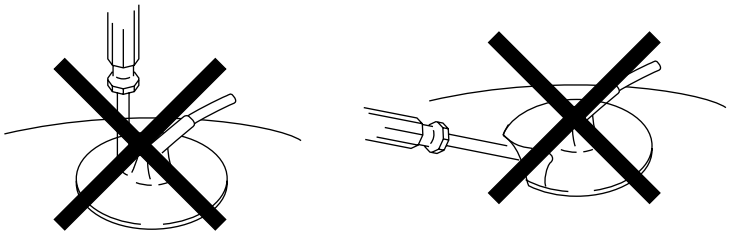
② Using a thumb pull the rubber cap firmly in the direction indicatid by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by terning up the rubber capand pulling it up in the directin off the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Do not damage the surface of anode-caps with sharp shaped objects.
② Do not press the rubber too hard so as not to damage the inside of anode-cap.
A metal fitting called the shatter-hook terminal is built into the rubber.
③ Do not turn the foot of rubber over too hard.
The shatter-hook terminal will stick out or damage the rubber.



SECTION 2
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

2-1. BEAM LANDING ADJUSTMENT

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig3-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 2-1 through 2-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 2-2.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 2-4.)

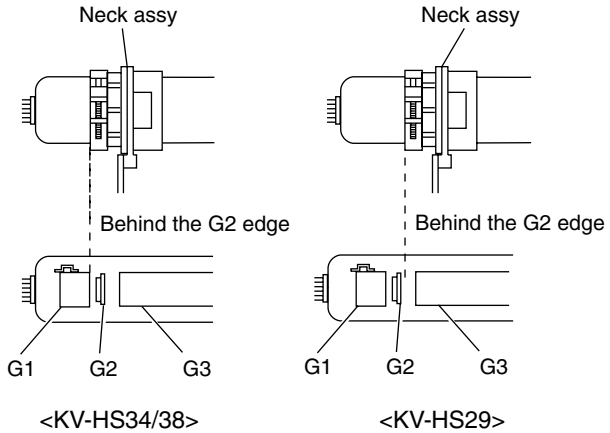


Fig. 2-1

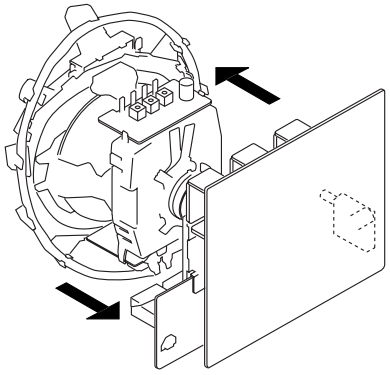


Fig. 2-2

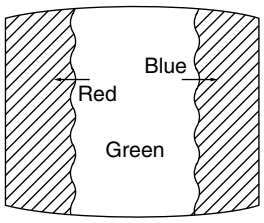


Fig. 2-3

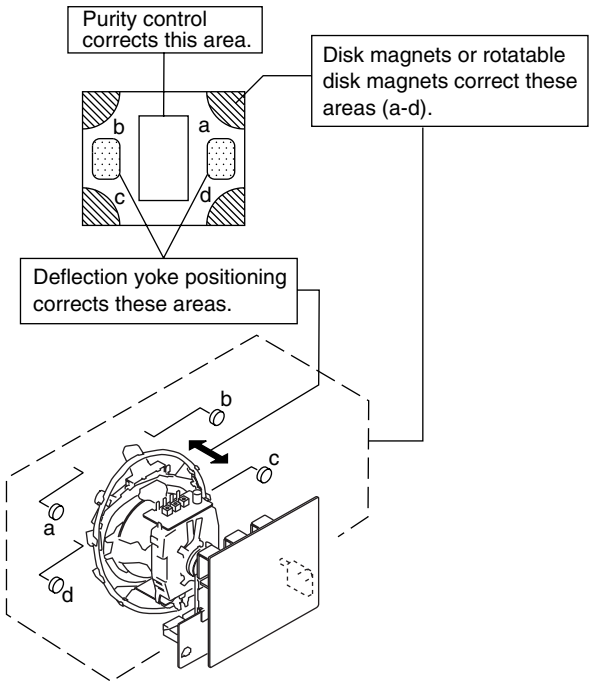


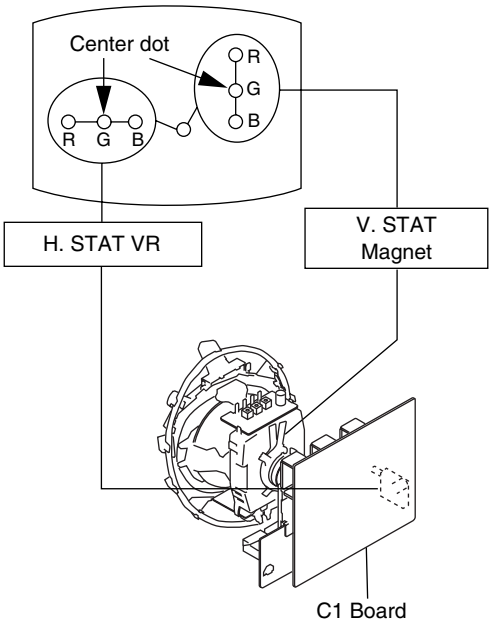
Fig. 2-4

2-2. CONVERGENCE ADJUSTMENT

Preparation :

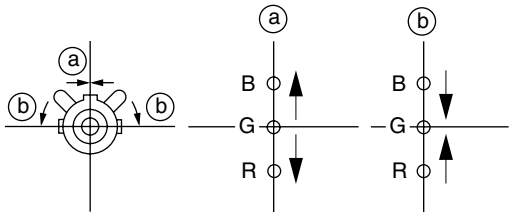
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the PICTURE and BRIGHTNESS 50%.
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

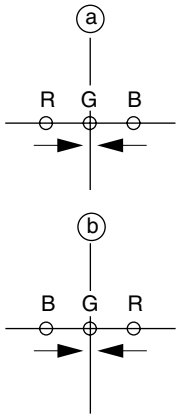


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

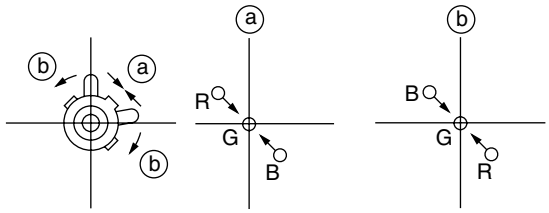
① V. STAT

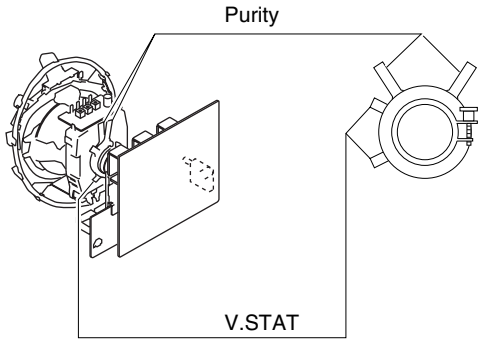


② H. STAT VR



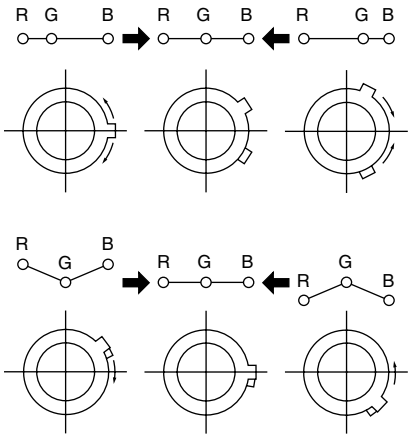
③





④ BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



(2) Dynamic Convergence Adjustment

Preparation:

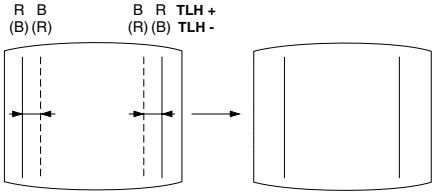
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

① Receive the dot/hatch pattern signal and adjust picture quality by the menu.

② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL–) and take both sides.



2. Adjust XCV core.

To able to become balance of XCV on the X axis well.

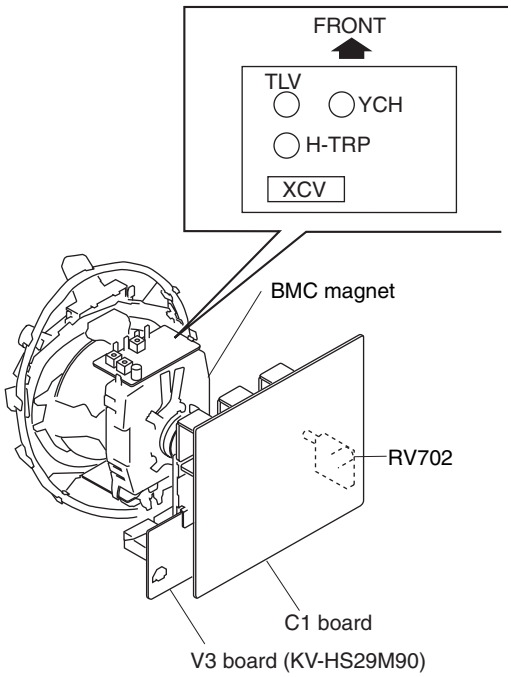
3. Adjust V-TILT.

Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

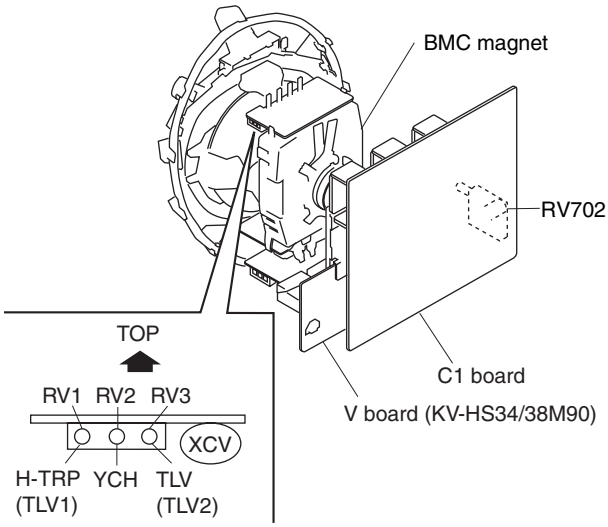
4. Adjust YCH.

Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.

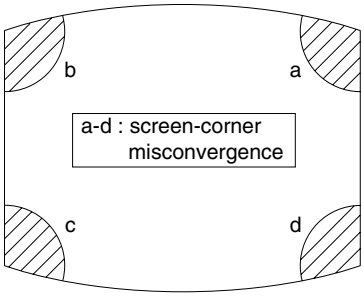
<KV-HS34/38>



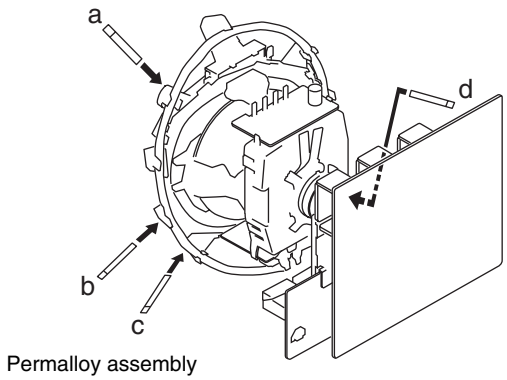
<KV-HS29>



(3) Screen-corner Convergence



Fix a Permalloy assy corresponding to the misconverged areas.

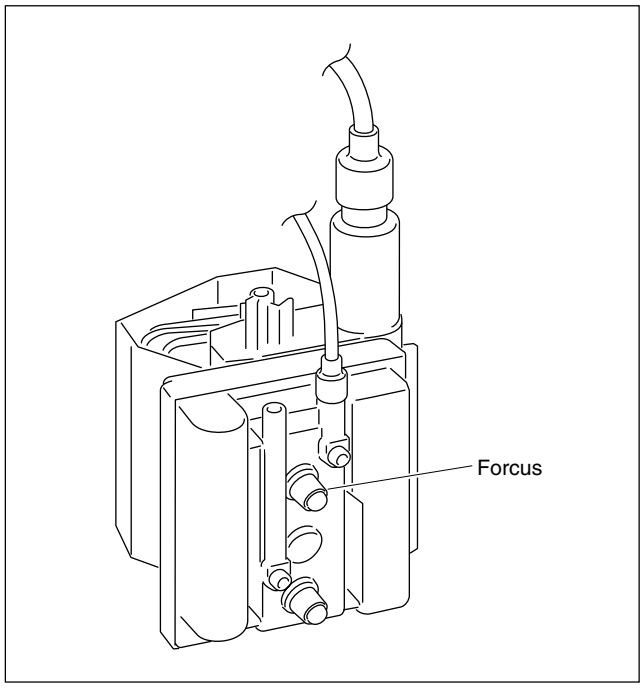


2-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

(1) Receive digital monoscope pattern.
(2) Set "A/V CONTROL" to "STANDARD".
(3) Adjust FOCUS VR so that the center of the screen becomes justfocus.
(4) Change the receiving signal to white pattern and blue back.
(5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



2-4. NECK ASSY TWIST ADJUSTMENT

(1) Receive dot/hatch pattern.
(2) Turn FOCUS VR fully counter-clockwise.
(3) Confirm the dot shape at the screen center. (Fig. 2-5)
(4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

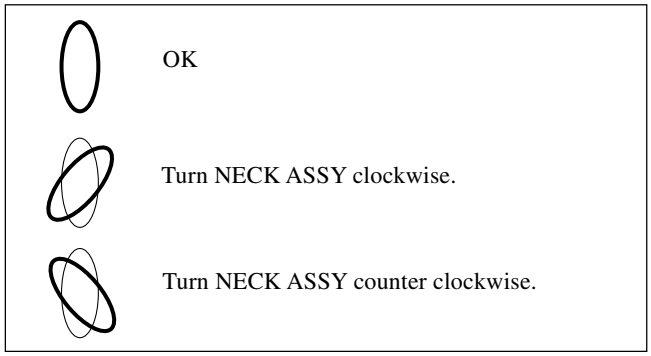
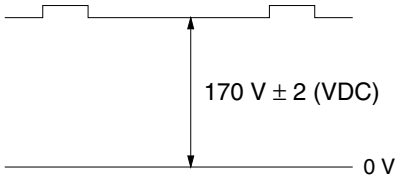


Fig. 2-5

2-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Whilst watching the picture, adjust the Screen VR (RV9002) located on the C1 board to the point just before the flyback return lines disappear (to the point before cut-off).



2. WHITE BALANCE ADJUSTMENT

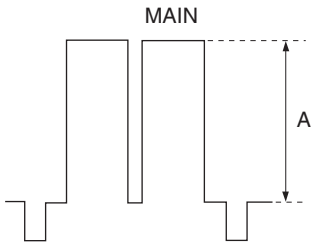
1) Set to Service Mode (Refer Section 3-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set the following condition.
   PICTURE minimum, BRIGHTNESS 50%
4) Select GCT (WHB 8) and BCT (WHB 9) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
5) Set the PICTURE to maximum.
6) Select GDR (WHB 5) and BDR (WHB 6) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].

3. SUB PICTURE BRIGHTNESS ADJUSTMENT

1) Tune RF PAL white signal at program No. 1 and No. 2.
2) Select “TWIN PICTURE” mode.
3) Receive different RF PAL white signals in MAIN and Sub picture.
4) Adjust RV3300 on A Board, so that the output from the A8 pin and A5 pin of the CN1180 becomes within the spec.

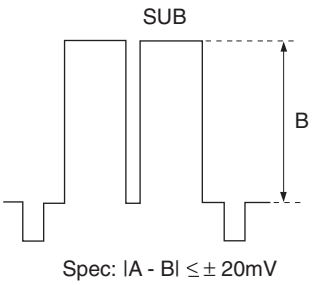
CVBS 1

A8 pin



CVBS 2

A5 pin



SECTION 3
CIRCUIT ADJUSTMENTS

3-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-951 that comes with this unit.

a. ENTERING SERVICE MODE

With the unit on standby
↓
[DISPLAY]
↓
[5]
↓
[VOL (+)]
↓
[POWER]

This operation sequence puts the unit into service mode.

b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

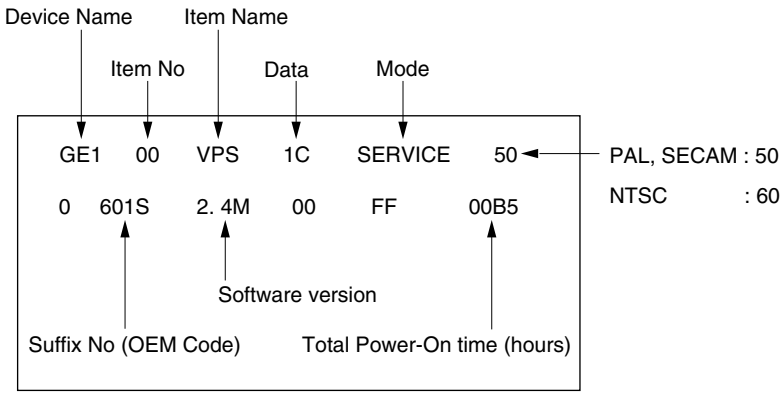
c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), select an item of adjustment.
3) Press [MUTING] button and it will indicate WRITE on the screen.
4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

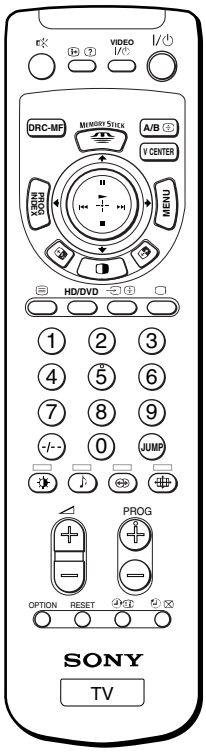
1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

The screen display is :



[1], [4] ↓	Select the adjustment item.
[3], [6] ↓	Raise/lower the data value.
[MUTING] ↓	Writes.
[0]	Executes the writing.

[7], [0]	All the data becomes the values in memory.
[8], [0]	All user control goes to the standard state.
[5], [0]	Service data initialization (Be sure not to use usually.)
[DISPLAY], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.
[2], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.



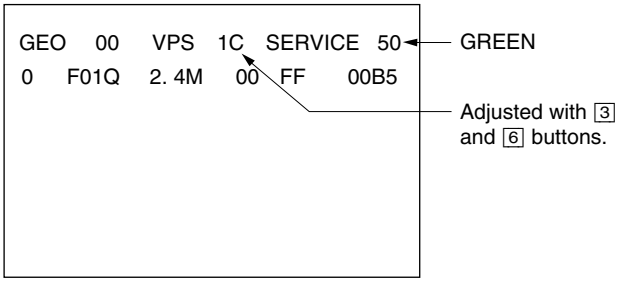
RM-997

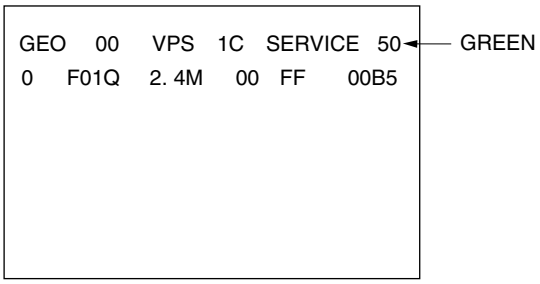
3-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

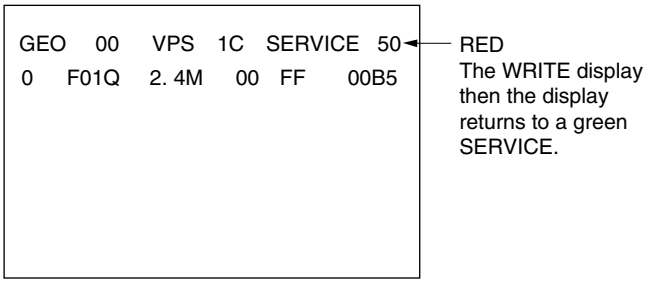
This explanation uses H-Position as an example.

1. Select "GEO 00 HPS" with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)





Written with [MUTING]



Write executed with [0]

Use the same method for all Items. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Note : 1. In [WRITE], the data for all items are written into memory together.

2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Category	Item		Function	Standard Data																			Device Name (Slave Address)
	No.	Name		PR50NC	100VC	R450VC	PR50VC	TW50	IX50	HD1080i/50	120NC	R460NC	PR60NC	120VC	R460VC	PR60VC	TW60	IX60	HD1080i/60				
				100NC	R450NC	PR50NC	100VC	R450VC	PR50VC	TW50	IX50	HD1080i/50	120NC	R460NC	PR60NC	120VC	R460VC	PR60VC	TW60	IX60	HD1080i/60	MS-MODE	
GE1	00	VPS	VERTICAL POSITION	19	19	19	19	19	19	19	19	19	1A	19	19	1A	19	19	19	19	19	19	CXA2170AQ(86H)
	01	VSZ	VERTICAL SIZE	26	28	28	26	28	28	28	28	28	25	29	29	28	27	29	29	29	29	29	
	02	VZO	V SIZE OFF SET (PJ only)	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	03	VLN	VERTICAL LINEARITY	07	7	07	07	07	07	07	07	07	06	07	07	06	07	07	07	07	07	07	
	04	VSC	VERTICAL S CORRECTION	08	8	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	
	05	VCN	VERTICAL CENTERING	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	
	06	VPN	VERTICAL PIN	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	07	MVP	VERTICAL MIDDLE PIN	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	08	HTZ	HORIZONTAL TRAPEZOID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	09	MHZ	MIDDLE HORIZONTAL TRAPEZOID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0A	ZOM	ZOOM SW	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0B	ASP	ASPECT SWITCH	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	00	01	00	00	
	0C	VSP	ASPECT RATIO	2F	2F	2F	2C	2C	2C	2F	2F	38	2F	2F	2F	2D	30	2F	2F	2F	2D	2F	
	0D	VSR	VERTICAL SCROLL	1F	1F	1F	26	21	21	1F	1F	1F	1F	1F	1F	24	20	20	1F	1F	1E	21	
	0E	UVL	UPPER VERTICAL LINEARITY	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0F	LVL	LOWER VERTICAL LINEARITY	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
GE2	00	HCT	HORIZONTAL CENTERING	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	CXA2170AQ(86H)
	01	HPS	HORIZONTAL POSITION	15	15	15	15	15	15	15	15	15	13	13	13	13	13	13	13	13	13	13	
	02	HSZ	HORIZONTAL SIZE	2D	2D	2D	2D	2D	2D	2D	2D	2D	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	
	03	SLN	HORIZONTAL S CORRECTION	09	09	09	09	09	09	09	09	09	08	08	08	08	08	08	08	08	08	08	
	04	MPN	HORIZONTAL MIDDLE PIN	06	06	06	06	06	06	06	06	06	05	05	05	05	05	05	05	05	05	05	
	05	PIN	HORIZONTAL PIN	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	10	11	11	
	06	PN0	PIN OFF SET (PJ only)	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	07	UCP	UPPER CORNER PIN	21	21	21	22	22	22	21	21	21	20	20	20	20	21	21	20	20	20	21	
	08	LCP	LOWER CORNER PIN	23	23	23	24	25	25	23	23	23	22	22	22	21	23	23	22	22	22	22	
	09	UXG	UPPER EXTRA CORNER PIN GAIN	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	01	
	0A	LXG	LOWER EXTRA CORNER PIN GAIN	00	00	00	00	00	00	00	00	00	02	00	00	00	00	00	00	00	00	00	
	0B	UXP	UPPER EXTRA CORNER PIN POSITION	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	03	
	0C	UCP	LOWER EXTRA CORNER PIN POSITION	00	0	00	00	00	00	00	00	00	03	00	00	00	00	00	00	00	00	00	
	0D	LCP	EXTRA CORNER PIN POLARITY	00	0	00	00	00	00	00	00	00	01	00	00	00	00	00	00	00	00	01	
	0E	PPH	PIN PHASE	15	15	15	15	15	15	15	15	14	16	14	14	16	16	16	14	14	14	17	
	0F	VAG	AFC ANGLE	1B	1B	1B	1B	1B	1B	1B	1B	1B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1E	
	10	LNA	LINEARITY ANGLE	21	21	21	21	21	21	21	21	21	1A	1A	1A	1A	1A	1A	1A	1A	1A	1C	
	11	VBW	AFC BOW	1A	1A	1A	1A	1A	1A	1A	1A	1A	1C	1A	1A	1C	1A	1A	1A	1B	1C	1D	
	12	LBW	LINEARITY BOW	29	26	26	29	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	

Category	Item No.	Item Name	Function	Standard Data																			Device Name (Slave Address)
				PR50NC	100VC	R450VC	PR50VC	TW50	IX50	HD1080i/50	120NC	R460NC	PR60NC	120VC	R460VC	PR60VC	TW60	IX60	HD1080i/60				
				100NC	R450NC	PR50NC	100VC	R450VC	PR50VC	TW50	IX50	HD1080i/50	120NC	R460NC	PR60NC	120VC	R460VC	PR60VC	TW60	IX60	HD1080i/60	MS-MODE	
GE3	00	HBL	HORIZONTAL BLANKING SWITCH	01	1	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	CXA2170AQ(86H)
	01	LBL	LEFT BLANKING	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
	02	RBL	RIGHT BLANKING	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
	03	VBL	VERTICAL BLANKING SWITCH	01	1	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	
	04	TBL	TOP BLANKING	04	4	04	0F	0F	0F	04	04	0F	02	02	02	0F	0A	0A	02	02	08	02	
	05	BBL	BOTTOM BLANKING	0A	A	0A	0F	0F	0F	0A	0A	0F	06	06	06	0F	0F	0F	06	06	0F	06	
	06	BLK	BLANKING OFF	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	07	VCM	VERTICAL COMPENSATION	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	08	HCM	HORIZONTAL COMPENSATION	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	09	ACM	AFC COMPENSATION	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0A	PCM	PIN COMPENSATION	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0B	AFC	AFC LOOP GAIN	01	1	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	
	0C	JMP	REFERENCE PULSE JUMP SWITCH	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0D	VSW	VERTICAL DRIVE JUMP SWITCH	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0E	RST	VERTICAL DRIVE START SWITCH	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	0F	EWD	PIN DC LEVEL SHIFT	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	10	AKT	AKB TIMING	15	15	15	1A	15	15	15	15	1F	14	14	14	16	14	14	14	14	10	14	
	11	PPL	PIN COMP POLARITY	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	12	M15	FH=15K @ MS MODE	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	13	HFQ	Fh setting @multi-scan	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	14	HFX	Reciprocal Fh @mult-scan	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	15	VMP	VERTICAL MULTI-SCAN MODE	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	16	ITL	FREERUN INTERLACE SETTING	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	17	VLL	VERTICAL # OF LINE(L)	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	18	VLH	VERTICAL # OF LINE(H)	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	19	AGC	AGC SW for PAL	00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	

Category	Functionality No.	Functionality Name	Function	Standard Data								Device Name (Slave Address)
					RGBJ Deflection Table							
				Common	SD50NC/100NC/TW50/IX50	SD50VC/FF100VC	HD1080i/50	SD60NC/SD120NC/TW60/IX60	SD60VC/120VC	HD1080i/60	MS-MODE	
GE4	00	DFS	DF SW	00								CXA1875AM(46H)
	01	DFH	DF Phase		10	10	10	10	10	10	10	CXA1875AM(46H)
	02	QPH	QP Phase		1F	1F	1F	1F	1F	1F	1F	CXA1875AM(46H)
	03	QAM	DQP AMPLITUDE		27	27	27	27	27	27	27	CXA2170(86H)
	04	QAV	DQP AMPLITUDE VERTICAL MODULATION		25	25	25	25	25	25	25	CXA2170(86H)
	05	QAA	DQP AMPLITUDE TILT		08	08	08	08	08	08	08	CXA2170(86H)
	06	QPC	DQP DC LEVEL		1C	1C	1C	1C	1C	1C	1C	CXA2170(86H)
	07	QPV	DQP DC LEVEL VERTICAL MODULATION		27	36	37	27	36	37	27	CXA2170(86H)
	08	QPP	DQP DC LEVEL TILT		08	05	05	08	05	05	08	CXA2170(86H)
	09	HTR	Horizontal Trapezium		1F	1F	1F	1F	1F	1F	1F	CXA1875AM(46H)
	0A	ROT	Rotation	1F								CXA1875AM(46H)
	0B	PCD	Pin Correction Division Ratio	2								CXA2170(86H)
	0C	CPY	COPY FUNCTION									

Category	Item		Function	Standard Data									Device Name (Slave Address)
	No.	Name		Common	Input Mode Table Group 2								
					Others	(YUV) SD-I	(YUV) SD-P	(YUV) HD	(RGB) SD-I	(RGB) SD-P	(RGB) HD	MS	
WHB	00	YOS	DC Offset Canceller for Y Signal	07									CXA2170(86H)
	01	UOS	DC Offset Canceller for Cb Signal		1F	1F	28	2C	22	29	2D	1F	
	02	VOS	DC Offset Canceller for Cr Signal		1F	24	2B	2D	21	28	2C	1F	
	03	SBR	Sub Brightness Control	11									
	04	RDR	R Drive	1F									
	05	GDR	G Drive	1D									
	06	BDR	B Drive	21									
	07	RCT	R Cutoff	1F									
	08	GCT	G Cutoff	1A									
	09	BCT	B Cutoff	15									
	0A	SBO	Sub Brightness Offset	1F									
	0B	RDO	R Drive Offset	1F									
	0C	GDO	G Drive Offset	1C									
	0D	BDO	B Drive Offset	1B									
	0E	RCO	R Cutoff Offset	1F									
	0F	GCO	G Cutoff Offset	1B									
	10	BCO	B Cutoff Offset	19									

Category	Functionality		Function	Standard Data														Device Name (Slave Address)
	No.	Name		Common	Field Freq		Multi Picture Mo			ABL Control Table								
					50	60	MS-MODE	Twin	Index	EcoOff VC	EcoOff TW/IX	EcoOff WD-N	EcoOff Others	EcoON VC	EcoON TW/IX	EcoON WD-N	EcoON Others	
SAJ	00	PIC	Picture Control															CXA2170(86H)
	01	BRT	Brightness Control															
	02	COL	Color Control															
	03	HUE	Hue Control															
	04	SHP	Sharpness Control															
	05	VML	VM Level															
	06	DYC	Dynamic Color on/off															
	07	WBS	White Balance Offset Setting															
	08	RYR	Color Matrix Specification		0D	08												
	09	RYB	Color Matrix Specification		0F	09												
	0A	GYR	Color Matrix Specification		07	09												
	0B	GYB	Color Matrix Specification		04	06												
	0C	GMS	Gamma Shape Correction															
	0D	GMR	Gamma Red															
	0E	GMG	Gamma Green															
	0F	GMB	Gamma Blue															
	10	DCT	DC Transmission Control															
	11	APL	Auto Pedestal Level Control															
	12	ABM	ABL Mode Control															
	13	ABT	ABL Current detection Vth Control							04	08	-	00	0F	0B	-	0B	
	14	CLO	Color Offset															
	15	CLW	Color Step Width to the Change of S/N	03														
	16	HUO	Hue Offset															
	17	SHO	Sharpness Offset															
	18	SHW	Sharpness Step Width to the Change of S/N	01														
	19	PIO	Picture Offset for TWIN/INDEX/MS				07	07	07									
	1A	BRO	Brightness Offset for MS															
	1B	DPL	APED BLACK SIZE INFLECTED SETTING	00														
	1C	TCO	COLOR ON/OFF SETTING	00														

CATEGIRY	Item		Function	Standard Data																Device Name
	No.	Name		Picture/Sound Mode Table				Input Mode Table Group 2												
				Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	Others	(YUV) SD-I	(YUV) SD-P	(YUV) HD	(RGB) SD-I	(RGB) SD-P	(RGB) HD	TV 50	Video 50	TV 60	Video 60	MS	(Slave Address)
SAJ	00	PIC	Picture Control	3F	32	25														CXA2170(86H)
	01	BRT	Brightness Control	21	1E	1F														
	02	COL	Color Control	31	2A	21														
	03	HUE	Hue Control	1F	1F	1F														
	04	SHP	Sharpness Control	22	1F	1F														
	05	VML	VM Level	0F	0A	05	0A													
	06	DYC	Dynamic Color on/off	01	01	00	01													
	07	WBS	White Balance Offset Setting	00	00	00	00													
	08	RYR	Color Matrix Specification																	
	09	RYB	Color Matrix Specification																	
	0A	GYR	Color Matrix Specification																	
	0B	GYB	Color Matrix Specification																	
	0C	GMS	Gamma Shape Correction	07	07	00	07													
	0D	GMR	Gamma Red	0A	03	00	03													
	0E	GMG	Gamma Green	0A	03	00	03													
	0F	GMB	Gamma Blue	0A	03	00	03													
	10	DCT	DC Transmission Control	0A	03	00	03													
	11	APL	Auto Pedestal Level Control	01	02	00	02													
	12	ABM	ABL Mode Control	01	01	00	01													
	13	ABT	ABL Current detection Vth Control																	
	14	CLO	Color Offset						0A	07	07	0A	07	07	03	09	07	07	00	
	15	CLW	Color Step Width to the Change of S/N																	
	16	HUO	Hue Offset						06	07	07	07	07	07	05	04	07	07	07	
	17	SHO	Sharpness Offset						07	0F	13	07	0F	13	0F	0F	0F	0F	0F	
	18	SHW	Sharpness Step Width to the Change of S/N																	
	19	PIO	Picture Offset for TWIN/INDEX/MS																	
	1A	BRO	Brightness Offset for MS					0F	0F	06	04	0F	06	04					07	
	1B	DPL	APED BLACK SIZE INFLECTED SETTING																	
	1C	TCO	COLOR ON/OFF SETTING																	

Category	Item		Function	Standard Data		Device Name
	No.	Name		NC	VC	(Slave Address)
DCN	00	SHS	DC AMP3	1F	1F	CXA8070P(DEh)
	01	YBU	VCA9	1F	1F	
	02	YBL	VCA10	1F	1F	
	03	RAP	DC AMP2	19	19	
	04	RUB	VCA5	15	15	
	05	RLB	VCA6	15	15	
	06	LAP	DC AMP1	19	19	
	07	LUB	VCA1	15	15	
	08	LLB	VCA2	15	15	
	09	CAJ	DC AMP4	1B	1B	
	0A	RUM	RIGHT UPPER MIDDLE BOW	1F	1F	
	0B	RLM	RIGHT LOWER MIDDLE BOW	1F	1F	
	0C	LUM	LEFT H AMP	1F	1F	
	0D	LLM	LEFT UPPER MIDDLE BOW	1F	1F	
	0E	CPY	Copy the DAC data to all vc/nc NVM area	0	<-	

Category	Item		Function	Standard Data	Device Name
	No.	Name		Common	(Slave Address)
LDG	00	NSC	NS Correction	7F	CXA1875AM(42H)
	01	EWC	EW Correction	7F	
	02	LX	Left Cross Correction	7F	
	03	RX	Right Cross Correction	7F	
	04	HST	H Shift Correction	7F	
	05	ENS	Environmental SW	0	
	06	TES	Temperature SW	1	
	07	NSS	NS SW	1	
	08	EWS	EW SW	1	
	09	NSG	NS Correction Gain	29	CXA2026AS(8eh)
	0A	EWG	EW Correction Gain	24	
	0B	ENG	Environmental Correction Gain	3F	
	0C	ENN	NS Correction by Environment	0E	
	0D	TLD	Temp. Corr. DC of Left side	0F	
	0E	TLU	Temp. Corr. Gain of Left Upper	1F	
	0F	TLL	Temp.Corr. Gain of Left Lower	1F	
	10	TRD	Temp. Corr. DC of Right side	0F	
	11	TRU	Temp. Corr. Gain of Right Upper	1F	
	12	TRL	Temp. Corr. Gain of Right Lower	1F	
	13	DHM	DH Mute	0	
	14	DYP	DY-Phase	7F	CXA1875(46h)
	15	LCL	LCC Correction Limiter	3	CXA1875AM(42H)

Category	Item		Function	Standard Data																Device Name
	No.	Name		Common	Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	Picture/Sound Mode Table											(Slave Address)
									(YUV) SD-I	(YUV) SD-P	(YUV) HD	(RGB) SD-I	(RGB) SD-P	(RGB) HD	TV 50	Video 50	TV 60	Video 60	MS	
JGL	00	PON	RGB and AKB Reference Pulse Output On/Off	01																CXA2170(86H)
	01	RGB	RGB Output Selection	07																
	02	AGG	Aging Mode Selection	00																
	03	BBT	RGB Bottom Limitter Control	02																
	04	LML	RGB Amplitude Limitter Control	00																
	05	SCO	Sub Picture Control						0A	0A	0A	0A	0A	0A	05	05	05	05	03	
	06	LEV	RGB Level for RGB	05																
	07	SYS	Signal Band Selection						01	02	03	01	02	03	01	01	01	01	03	
	08	SF0	Sharpness f0 setting	01					01	01	01	01	01	01	01	01	01	01	01	
	09	SF1	High f0 sharpness gain control						01	01	03	01	01	03	00	01	00	01	03	
	0A	PRO	Pre/Over-Shoot Ratio Control						03	03	03	03	03	03	03	03	03	03	03	
	0B	LTI	Luminance Transient Improvement		02	02	00	02												
	0C	LTM	LTI Mode Setting	01																
	0D	CTI	Chrominance Transient Improvement		03	01	00	01												
	0E	VDL	VM OUT Phase Control						07	07	07	07	07	07	07	07	07	07	07	
	0F	VCR	VM OUT Coring Level Setting						00	00	00	00	00	00	02	02	02	02	00	
	10	VFO	VM OUT F0 Setting						02	02	02	02	02	02	02	02	02	02	02	
	11	VLM	VM OUT Limiter Level Setting						03	03	00	03	03	00	03	03	03	03	00	
	12	SPH	H Sync Delay Timing Setting	00																
	13	CLP	CLP Pulse Phase Control	03																
	14	CLG	CLP Pulse Gate Setting	00																
	15	CLS	CLP Pulse Start Phase Setting	00																
	16	YOS	DC_OFFSET RANGE FOR Y SIGNAL SETTING	00																
	17	YLT	Y AMPLITUDE LIMITER LEVEL SETTING	03																
	18	YCS	Y SIGNAL GAIN SETTING						01	01	01	01	01	01	01	01	01	01	00	
	19	PHA	PHASE ADJ	03																
	1A	AKO	AKB_OFF	00																
	1B	HBS	RGB OUTPUT H BLANKING WHEN AKBOFF=0	00																
	1C	ARG	AUTO REGI LRGB_LEV	0C																

Category	Item		Function	Standard Data														Device Name (Slave Address)
	No.	Name		Common	Input Mode Table Group 1													
					2DComb	3DComb	S-Input	others	TV	Video	DVD	50TV	50Video	50DVD	60TV	60Video	60DVD	
YCT	00	TNT	Tint Adjustment for NTSC						1F	1F								CXA2163Q(88H)
	01	PNG	PAL/NTSC Gate Width	01														
	02	PNI	PAL/NTSC Sensitivity SW	00														
	03	SCL	Sub Color Control									07	07		07	07		
	04	SCT	Sub Contrast Control									07	07		07	07		
	05	SF0	Sharpness Center Frequency Changing	02														
	06	SEQ	Sharpness Equalizer Characteristic	03														
	07	SHG	Sharpness Gain Control									04	04	04	04	04	04	
	08	YOL	Y-output Level Control	22														
	09	BSP	Black Stretch Start Point Changing	00														
	0A	COL	Cb/Cr Output Level Control	1D														
	0B	DCR	DC Restoration Ratio Adjustment	00														
	0C	BF0	BPF/TQF F0 Adjustment	00														
	0D	BFQ	BPF/TQF Q Adjustment	02														
	0E	FSW	BPF/TQF Switch	01														
	0F	SDT	SECAM Double Trap Switch	01														
	10	LPF	Y/Cb/Cr LPF Switch	01														
	11	YDL	Y-DL Time Adjustment		06	05	03	05										
	12	B01	Cb Offset1 Adjustment (main route)	09														
	13	RO1	Cr Offset1 Adjustment	06														
	14	CDF	V Count Down Frequency Switch	00														
	15	CDM	V Count Down Judge Switch	00														
	16	AFC	AFC Sensitivity Switch							00	00							
	17	MVM	Macrovision Mask + AFC Mask	00														
	18	SRY	SECAM R-Y Black Adjustment	07														
	19	SBY	SECAM B-Y Black Adjustment	01														
	1A	BEL	SECAM BELL/HPF Switching	02														
	1B	BLF	BELL f0 Adjustment	00														
	1C	SVI	SECAM V-ID Switch	00														
	1D	SGP	SECAM Gate Position Adjustment	00														
	1E	SID	SECAM Sensitivity Switch	01														
	1F	SIH	SECAM Inhibition Switch	00														
	20	STP	Y Black Level Setup for PAL plus	00														
	21	ASW	AUTO SWITCH	01														
	22	3NR	3D NR Operation on/off	01														
	23	BW6	3D NR for 60Hz non-bust signal on/off	01														
	24	WSH	Sharpness Gain Step for noise reduction	00														
	25	WCO	Cb/Cr Output Level Step for noise reduction	00														

Category	Functionality		Function	Stamdard Data												Device Name
	No.	Name		Common	S-Input	SECAM	NTSC	PAL	TV	Video	DVD	50TV	50Video	60TV	60Video	(Slave Address)
SYC	00	TNT	Tint Adjustment for NTSC						1F	1F						CXA2163Q(8AH)
	01	PNG	PAL/NTSC Gate Width	01												
	02	PNI	PAL/NTSC Sensitivity SW	00												
	03	SCL	Sub Color Control									07	07	07	07	
	04	SCT	Sub Contrast Control									07	07	07	07	
	05	SF0	Sharpness Center Frequency Changing	02												
	06	SEQ	Sharpness Equalizer Characteristic	03												
	07	SHG	Sharpness Gain Control	07												
	08	YOL	Y-output Level Control	19												
	09	BSP	Black Stretch Start Point Changing	00												
	0A	COL	Cb/Cr Output Level Control	13												
	0B	DCR	DC Restoration Ratio Adjustment	00												
	0C	BF0	BPF/TQF F0 Adjustment	01												
	0D	BFQ	BPF/TQF Q Adjustment	02												
	0E	FSW	BPF/TQF Switch	01												
	0F	SDT	SECAM Double Trap Switch	01												
	10	LPF	Y/Cb/Cr LPF Switch	01												
	11	YDL	Y-DL Time Adjustment		05	03	03	03								
	12	NCM	1-H Addition Switch	01												
	13	B01	Cb Offset1 Adjustment (main route)	09												
	14	RO1	Cr Offset1 Adjustment	09												
	15	CDF	V Count Down Frequency Switch	00												
	16	CDM	V Count Down Judge Switch	00												
	17	AFC	AFC Sensitivity Switch							00	00					
	18	MVM	Macrovision Mask + AFC Mask	00												
	19	SRY	SECAM R-Y Black Adjustment	07												
	1A	SBY	SECAM B-Y Black Adjustment	01												
	1B	BEL	SECAM BELL/HPF Switching	02												
	1C	BLF	BELL f0 Adjustment	00												
	1D	SVI	SECAM V-ID Switch	00												
	1E	SGP	SECAM Gate Position Adjustment	00												
	1F	SID	SECAM Sensitivity Switch	01												
	20	SIH	SECAM Inhibition Switch	00												
	21	STP	Y Black Level Setup for PAL plus	00												
	22	ASW	SUB AUTO SWITCH	01												

Category	Functionality		Function	Standard Data						Device Name
	No.	Name		Common	HD/DVD Input Table					
					fh15k	otherfh	RGB	HD720p/1080i	DVD	(Slave Address)
SYN	00	MAT	Matrix Conversion				03	01	00	CXA2171(8CH)
	01	VFR	Dummy Sync Freq	01						
	02	SL1	Input Signal Type for IN1	00						
	03	SL2	Input Signal Type for IN2	01						
	04	FSY	Sync Identification Mode				01	03	03	
	05	VTC	V sync Separation Time Constant		03	00				
	06	HWD	Output Pulse Width					01	00	
	07	HSL	Sync Separation Mode	01						
	08	HTC	H-Sync Separation Time Constant					01	01	
	09	HSW	YG Out signal Output	00						
	0A	HMA	Hsync within V sync	00						
	0B	MAC	Macrovision	01						
	0C	DUM	Out dummy sync or signal sync	00						
	0D	CLK	Clock Select	00						
	0E	GSL	Gain Select	00						
	0F	CBG	CB Gain	07						
	10	CRG	CR Gain	07						
	11	YG	Y Gain	07						
	12	HFR	Dummy Frequency Select	01						

Category	Item		Function	Standard Data									Device Name (Slave Address)
	No.	Name		Common	BSW 0 Sound Mode Table				BSW 1 Sound Mode Table				
					Dynamic	Drama	Soft	Personal	Dynamic	Drama	Soft	Personal	
AP	00	BBS	Bass Boost Setting	0									NJW1139(82H)
	01	BCB	Boost/Cut Sub-Bass	0									
	02	SBS	Sub-Bass Setting	0									
	03	BCT	Boost/Cut Sub-Treble	0									
	04	STS	Sub-Treble Setting	3									
	05	AGL	AGC Level Setting	0									
	06	BSW	Bass Boost Switch	0									
	07	BAS	Bass sound mode Control		10	11	13		10	11	13		
	08	TRE	Treble sound mode Control		14	14	14		14	14	14		
	09	BBE	BBE Sound mode Control		A7	53	00		A7	53	00		
MSP	00	WST	W/G Stereo Threshold	15									MSP3415D(84H)
	01	WBT	W/G Bilingual Threshold	EC									
	02	WLL	W/G Monaural Threshold	05									
	03	WAC	W/G Agreement Count	01									
	04	WDL	W/G Search Delay	30									
	05	NDL	NICAM Search Delay	20									
	06	SDL	Stereo status Read Delay	10									
	07	AGC	AGC Switch Auto/Constant	01									
	08	REL	AGC Gain at Constant Mode	28									
	09	ACO	Carrier muting on/off	00									
	0A	FP	Audio Clock out on/off	01									
	0B	CRM	FM Prescale for non-M system	1B									
	0C	FPM	FM Prescale for M system	32									
	0D	FH	FM Prescale for HDEV	36									
	0E	FHM	FM Prescale for HDEV and M	65									
	0F	WGP	W/G Prescale	1C									
	10	NIP	NICAM Prescale	7F									
	11	ERR	Auto FM switch Threshold	50									
	12	VOL	Loud Speaker gain 0700h to 07FFh	30									

Category	Item		Function	Standard Data								Device Name (Slave Address)
	No.	Name		Common	Multi Picture Mode			Picture/Sound Mode Table				
					Twin	TV	Video	Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	
LTI	00	LDH	Histogram segment Selection	01								TDA9178(40H)
	01	CFS	Contour Filter Selection	01								
	02	WLB	Letterbox Window Switch	00								
	03	VDC	Video Dependent Coring					01	01	01	01	
	04	DEM	Demonstration Mode	00								
	05	CDP	Luminance Delay	04								
	06	OSP	Overrule Smart Peaking	00								
	07	WPO	White Point Stretch Off	00								
	08	DSK	Skin Tone Switch					00	00	00	00	
	09	ASK	Skin Tone Angle Selection	00								
	0A	WSK	Skin Tone Width Selection	00								
	0B	SSK	Skin Tone Size selection	00								
	0C	DGR	Green Enhancement switch		00			01	01	00	01	
	0D	DGT	Threshold of Green Enhancement switch	07								
	0E	GGR	Green Enhancement Gain	00								
	0F	WGR	Green Enhancement Width	00								
	10	SGR	Green Enhancement Size	00								
	11	DBL	Blue Stretch Switch	00								
	12	GBL	Blue Stretch Gain Selection	00								
	13	SBL	Blue Stretch Size selection	00								
	14	CDS	Color Dependent Sharpness					01	01	01	01	
	15	CST	Threshold of Color Dependent Sharpness	07								
	16	CTI	Color Transient Improvement					01	00	00	00	
	17	BON	Black offset Compensation					00	00	00	00	
	18	BTD	Adaptive Black Strecth					00	00	00	00	
	19	NLD	Non-Linearity Amplifier		00			15	13	05	13	
	1A	NLW	Step Width of Non-Linearity Amplifier	04								
	1B	VGD	Variable Gamma		1F			1F	15	1A	15	
	1C	VGW	Step Width of Variable Gamma	00								
	1D	PKD	Peaking Amplitude					3F	2F	1D	2F	
	1E	PKW	Step Width of Peaking Amplitude	08								
	1F	SPD	Steepness Correction					00	00	00	00	
	20	CRD	Coring Level					16	1B	0F	1B	
	21	CRW	Step Width of Coring Level	09								
	22	CRO	Coring Level Offset for Video Mode	09								
	23	LWD	Line Width Correction	1F								
	24	SNM	S/N Mode under unreliable S/N condition	01								
	25	SNC	S/N Ratio Average Counter			03	03					
	26	FMC	Feature Mode Matching Counter	02								

Category	Item		Function	Satndard Data	Device Name
	No.	Name		Common	(Slave Address)
MD1	00	HAP	H active Display area phase	Mid Side	
	01	VAP	V active Display area phase	Mid Side	
	02	HAS	h active display area size	Mid Side	
	03	VAS	v active display area size	Mid Side	
	04	HPW	display h pulse width	Mid Side	
	05	VPW	display v pulse width	Mid Side	
	06	YCD	display output yc signal delay correct	Mid Side	
	07	YSD	display output ys signal delay correct	Mid Side	
	08	MHP	main display picture h position	Mid Side	
	09	MVP	main display picture v position	Mid Side	
	0A	MHS	main display picture h size	Mid Side	
	0B	MVS	main display picture v size	Mid Side	
	0C	MPH	multi picture mode h position	Mid Side	
	0D	MPV	multi picture mode v position	Mid Side	
	0E	SHP	sub display picture h position	Mid Side	
	0F	SVP	sub display picture v position	Mid Side	
	10	SHS	sub display picture h size	Mid Side	
	11	SVS	sub display picture v size	Mid Side	
	12	PHP	PinP Large mode h position	Mid Side	
	13	PVP	PinP Large mode v position	Mid Side	
	14	PHZ	PinP Large mode h size	Mid Side	
	15	PVZ	PinP Large mode v size	Mid Side	
	16	DPS	display pll switch	Mid Side	
	17	MDS	model select	Mid Side	
	18	BCL	background Color y	Mid Side	
	19	YST	Display output ys signal type select	Mid Side	
	1A	OSH	Index Sub-Picture OSD H position	Mid Side	
	1B	OSV	Index Sub-Picture OSD V position	Mid Side	
MD2	00	HAP	DRC H-Active Area Position	Mid Side	
	01	HAS	DRC H-Active Area Size	Mid Side	
	02	VAP	DRC V-Active Area Position	Mid Side	
	03	VAS	DRC V-Active Area Size	Mid Side	
MD3	00	HAP	VDO H-Active Area Position	Mid Side	
	01	HAS	VDO-H active Area pixel size	Mid Side	
	02	VEP	VDO-V active even position	Mid Side	
	03	VLS	VDO-V active area line size	Mid Side	
	04	VOP	VDO-V active odd position	Mid Side	
	05	CLM	VDO-Clamp pulse output timing	Mid Side	
	06	CPW	VDO-Clamp pulse width	Mid Side	
	07	YCD	VDO-Analog input yc delay correct	Mid Side	
	08	PSP	VDO-external pll pd stop line count	Mid Side	
	09	PST	VDO-external pll pd start line count	Mid Side	
	0A	HSC	VDO-H sync cycle	Mid Side	
	0B	REV	VDO-Field reverse	Mid Side	
MD4	00	HAP	DTV H active area position	Mid Side	
	01	HAS	DTV H active area size	Mid Side	
	02	VLP	DTV V active area line position	Mid Side	
	03	VLS	DTV V active area line size	Mid Side	
	04	CPT	DTV Clamp pulse output timing	Mid Side	
	05	CPW	DTV Clamp pulse width	Mid Side	
	06	YCD	DTV analof input yc correct	Mid Side	
	07	PSP	DTV external pll pd stop line count	Mid Side	
	08	PST	DTV external pll pd start line count	Mid Side	

Category	Item		Function	Satndard Data	Device Name
	No.	Name		Common	(Slave Address)
MD5	01	MHY	Main H LPF Y Coefficient Code	Mid Side	
	02	MHC	Main H LPF C Coefficient Code	Mid Side	
	03	MVY	Main V LPF Y Coefficient Code	Mid Side	
	04	MVC	Main V LPF C Coefficient Code	Mid Side	
	05	MHR	Main h enhance y coring code	Mid Side	
	06	MHL	Main h enhance y cliping code	Mid Side	
	07	MHE	Main h enhance y level code	Mid Side	
	08	MHO	Main h enhance y coefficient code	Mid Side	
	09	MCR	Main h enhance c coring code	Mid Side	
	0A	MCL	Main h enhance c cliping code	Mid Side	
	0B	MCE	Main h enhance c level code	Mid Side	
	0C	MC0	Main h enhance c coefficient code	Mid Side	
	0D	MYR	Main V enhance y coring code	Mid Side	
	0E	MYL	Main v enhance y cliping code	Mid Side	
	0F	MYE	Main v enhance y level code	Mid Side	
	10	MVR	Main V enhance c coring code	Mid Side	
	11	MVL	Main V enhance c cliping code	Mid Side	
	12	MVE	Main V enhance c level code	Mid Side	
	13	SHY	sub h LPF y coefficient Code	Mid Side	
	14	SHC	sub h LPF c coefficient Code	Mid Side	
	15	SVY	sub v LPF y coefficient Code	Mid Side	
	16	SVC	sub v LPF c coefficient Code	Mid Side	
	17	SHR	sub h enhance y coring code	Mid Side	
	18	SHL	sub h enhance y cliping code	Mid Side	
	19	SHE	sub h enhance y level code	Mid Side	
	1A	SHO	sub h enhance y coefficient code	Mid Side	
	1B	SCR	sub h enhance c coring code	Mid Side	
	1C	SCL	sub h enhance c cliping code	Mid Side	
	1D	SCE	sub h enhance c level code	Mid Side	
	1E	SC0	sub h enhance c coefficient code	Mid Side	
	1F	SYR	Sub V enhance y coring code	Mid Side	
	20	SYL	sub v enhance y cliping code	Mid Side	
	21	SYE	sub v enhance y level code	Mid Side	
	22	SVR	Sub V enhance c coring code	Mid Side	
	23	SVL	Sub V enhance c cliping code	Mid Side	
	24	SVE	Sub V enhance c level code	Mid Side	
MD6	00	MCT	Main Cut Out on	Mid Side	
	01	MWH	Main Write H size	Mid Side	
	02	MWV	Main Write V size	Mid Side	
	03	MHP	Main Read H position	Mid Side	
	04	MVP	Main Read V Position	Mid Side	
	05	MHS	Main Read H Size	Mid Side	
	06	MVS	Main Read V Size	Mid Side	
MD7	00	MCN	Main Contrast	Mid Side	
	01	SCR	Sub Contrast R	Mid Side	
	02	SCG	Sub Contrast G	Mid Side	
	03	SCB	Sub Contrast B	Mid Side	
	04	RGB	RGB OUT Select	Mid Side	

Category	Item		Function	Standard Data											Device Name (Slave Address)
	No.	Name		Common	Field Freq 50	Field Freq 60	NR0, NTSC	NR0, others	NR1, NTSC	NR1, others	NR2, NTSC	NR2, others	NR3, NTSC	NR3, others	
3NR	00	WHC	PLL Divider setting(PAL=47, NTSC=44)		2F	2C									TC90A90F(14H)
	01	NIQ	U/V input polarity	00											
	02	CLW	A/D Clamp Pulse width		1E	1E									
	03	CLP	A/D Clamp Pulse Phase		50	50									
	04	YBW	Y H Blanking width		8A	8A									
	05	YBL	Y Blanking level adjustment	00											
	06	YBO	Internal Y H Blanking ON/OFF	00											
	07	MUT	Signal Output Muting	00											
	08	YBS	Y H Blanking start point		28	28									
	09	CBW	U/V H Blanking width		8A	8A									
	0A	CBS	U/V H Blanking start point		28	28									
	0B	CBO	Internal U/V H Blanking ON/OFF	00											
	0C	VBL	V H Blanking level adjustment	00											
	0D	UBL	U H Blanking level adjustment	00											
	0E	CDL	U/V output delay		00	00									
	0F	YDL	Y output delay		00	00									
	10	PVI	VD input polarity	00											
	11	PHI	HD input polarity	00											
	12	HDW	HD pulse width	10											
	13	PVO	VD output polarity	00											
	14	PHO	HD output polarity	00											
	15	HST	HD out pulse start position	36											
	16	VDL	VD out Pulse start position	00											
	17	VDW	VD out Pulse width	03											
	18	NDE	Noise detection point	00											
	19	NVP	Noise detect line	02											
	1A	NDS	Noise detect sencitivity	03											
	1B	HOF	H Reference pulse ON/OFF (ON=0)	01											
	1C	NDW	Noise detect gate width	09											
	1D	UOS	U Offset level	02											
	1E	POT	Output Port 0/1 Control		00	01									
	1F	UVF	UV Frag polarity	00											
	20	APC	AP Clock polarity	01											
	21	DAP	DAC power save (ON=1)	00											
	22	YLV	Y NR level				00	00	08	08	0C	0C	0E	0E	
	23	YST	Y Standard detection off/on	00											
	24	YNT	Y NTSC Standard detection	01											
	25	YPL	Y PAL Standard detection	01											
	26	YMV	Y Moving detection filter (ON=0)	00											
	27	YCR	Y Moving detection Coring level				00	00	00	00	07	07	0A	0A	
	28	VOS	V Offset level	01											
	29	YMG	Y Moving detection gain				00	00	00	00	00	00	00	00	
	2A	YEG	Y Moving detect on (ON=1)	01											
	2B	YEL	Y edge moving detection sensitivity				03	03	04	04	03	03	03	03	
	2C	YLM	Y NR Feed back limit level				00	00	03	03	04	04	08	08	
	2D	CLV	C NR level				00	00	08	08	09	09	0B	0B	
	2E	CNT	Relate C NR to YSTDN	01											
	2F	CPL	Relate C NR to YSTDP	01											
	30	CMG	C Moving detection gain				00	00	00	00	00	00	00	00	
	31	CCR	C Moving detection level				00	00	00	00	06	06	0C	0C	
	32	CLM	C NR Feed back limit level				00	00	04	04	05	05	05	05	
	33	NVS	NR Vertical start line		14	14									
	34	NHS	NR Horizontal start position		10	10									
	35	NVE	NR Vertical end line (offset:+100d)		D2	A0									
	36	NHE	NR Horizontal end position		78	78									
	37	YNG	Y Coring gain		01	01									
	38	COR	Coring/through (Coring=0)		00	00									
	39	LPF	LPF on/off (on=0)	00											
	3A	YLT	Y Coring limit level		00	00									
	3B	YNC	Y Coring offset level				00	00	08	08	0C	0C	0E	0E	
	3C	YCO	Y Coring off (on=1)		01	01									

Category	Item		Function	Standard Data											Device Name (Slave Address)
	No.	Name		Common	TV	Video	3D-Comb NR Mode				Picture/Sound Mode Table				
							NRmode0	NRmode1	NRmode2	NRmode3	Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	
3CM	00	NRM	Noise Reduction Operation Mode	00											UPD64083 (B8H)
	01	YCO	Y/C Signal Output Selection	0D											
	02	SYC	System Clock Selection	01											
	03	STD	Standard/Non-standard Operation Selection	00											
	04	MSS	Inter-frame/Inter-line Operation Selection	00											
	05	KIL	Killer/Non-killer Operation Selection	00											
	06	ECS	External C-sync Input Selection	01											
	07	CPP	ADC Input Level & Clump Pulse Width Selection	00											
	08	HDP	Horizontal Phase Adjustment	05											
	09	CDL	C-signal delay Adjustment	04											
	0A	DYC	DY Detection Coring Level Adjustment				02	02	02	04					
	0B	DYG	DY Detection Gain Adjustment				0A	0A	0A	0A					
	0C	DCC	DC Detection Coring Level Adjustment				05	03	03	05					
	0D	DCG	DC Detection Gain Adjustment				05	0A	0A	05					
	0E	YNR	YNR Non-linear Filter Setup	01											
	0F	CNR	CNR Non-linear Filter Setup	01											
	10	WSC	Noise Detectin Coring Adjustment	01											
	11	VTH	Hysteresis Selection for H-sync Non-standard		01	01									
	12	VTR	Sensitivity Selection for H-sync Non-standard		01	01									
	13	LDR	Sensitivity Selection for Frame-sync Non-standard		02	01									
	14	VAP	Gain Adjustment for Vertical Shape Correction								00	00	00	00	
	15	VAI	Vanishing Adjustment for Vertical Shape Correction								00	00	00	00	
	16	YPF	Center Frequency Selection for Y-peaking BPF								03	03	03	03	
	17	YPG	Gain Adjustment for Y-peaking BPF								0A	08	08	08	
	18	VSE	Line Comb Filter Setup	02											
	19	CCN	C-signal Split Filter Switch	00											
	1A	COS	C-signal Delay Switch at Noise Reduction	00											
	1B	SDC	DC Detection Sensitivity Switch	00											
	1C	SDY	DY Detection Lower-level Sensitivity Switch	01											
	1D	YHC	Y-signal Higher-level Coring Selection								00	00	00	00	
	1E	YHG	Y-signal Higher-level Gain Switch								00	00	00	00	
	1F	SHT	Non-standard Detection & H/V Counter Test Bits	00											
	20	CLK	Clock Test Bits	08											
	21	PLL	PLL Filter Setup	0D											
	22	KRF	Killer Detection Reference Adjustment	03											
	23	HSL	H-sync Slice Level Adjustment	0C											
	24	VSL	V-sync Slice Level Adjustment	08											
	25	BPS	Internal Burst Gate Start Position Adjustment	04											
	26	BPW	Internal Burst Gate Width Adjustment	0A											
	27	ADC	ADC Clock Delay Selection	03											
	28	APD	ADC Power-down Switch	01											
	29	SPD	Memory Power-down Switch	00											

Category	Item		Function	Standard Data	Device Name (Slave Address)
	No.	Name			
2CM	00	FUN	Function	03	TC90A69 (B2H)
	01	YCM	Y/C separator	00	
	02	CNR	CNR K	00	
	03	LIM	CNR limit	00	
	04	CPF	C-LPF	00	
	05	SLP	SelC-LPF	00	
	06	YFO	Y-P fo	00	
	07	YPG	Y-EQ Gain	00	
	08	YPL	Y-EQ/ N.C Limit	00	
	09	CLP	Pds.Clip	00	
	0A	YPF	Y-LPF	00	
	0B	VEG	V-Emph gain	03	
	0C	VEN	V-Emph N.L	03	
	0D	VEC	V-Emph Core	01	
TXT	00	TXH	Teletext Horizontal Display Position	29	
	01	TXV	Teletext Vertical Display Position	27	SAA5264(58H)
	02	THD	Teletext H-sync Active Edge Shift	00	
	03	TVD	Teletext V-sync Active Edge Shift	00	
	04	HPL	Teletext H-sync Polarity Configuration	01	
	05	VPL	Teletext V-sync Polarity Configuration	00	
	06	FPL	Teletext V-sync Polarity Configuration	01	
	07	FMD	Teletext Fastext/TOP Force Mode	02	
	08	TBR	Teletext RGB Brightness	06	
	09	NOP	Teletext National Option Table Configuration	01 (M61/M90) 02 (M91)	
	0A	TCH	Teletext Twisted Character Set Configuration	01 (M61/M90) 02 (M91)	

Category	Functionality		Function	Standard Data											Device Name (Slave Address)
	No.	Name			Field Freq										
				Common	50	60	100NC	R450NC	PR50NC	HD1080i/50	120NC	R460NC	PR60NC	HD1080i/60	MS-MODE	
WID	0	DEC	Wide ID DEC		03	03										CXA2157
PJE	0	PJE	(PJ-Engine Service Control)													CXPxxxxx(6AH)
OSD	00	OSH	OSD H Position	0D												CXP961F064(60H)
	01	OSV	OSD V Position				2D	1F	1E	1C	20	1E	1E	0B	1C	
	02	FW1	OSD ODD/EVEN Field Window Setup #1	07												
	03	FW2	OSD ODD/EVEN Field Window Setup #2	14												
	04	OHO	OSD H Position Offset for INDEX	04												
OPM	00	COM	Comb Operation Selection	00												*Option Misc*
	01	APC	APC Switch	01												
	02	TSY	TV System Selection under searching with Auto TV System	00												
	03	MUT	No Signal Mute	00												
	04	AFM	Auto FM switch	01												
	05	TVO	V-Angle correction to Picture Rotation	03												
	06	DBL	Disable Blueback function	00												
	07	SSO	Speed CH Search Selection	01												
	08	SCH	CH Selection for Shipping Condition	01												
	09	SCA	Cable/Air Selection for Shipping Condition	01												
	0A	DMG	Disable Menu-operation Guide	00												
	0B	VSN	Enable Noise Reduction in Video Mode	00												
	0C	RUC	RF Signal Change Counter after Unlocked	04												
	0D	RLC	RF Signal Change Counter after Locked	04												
	0E	LBB	Lower Blue Back Intensity	01												
	0F	23P	2/3 Pull Down Mode 0: Force OFF, 1: Auto	01												
	10	MBK	MS Background color to gray	00												MS(6eh)
OPB	00	OP1	Optional Bits 1 (see the specified sheet)	FB												*Option-Bits*
	01	OP2	Optional Bits 2 (see the specified sheet)	17												
	02	OP3	Optional Bits 3 (see the specified sheet)	07												

3-3. Picture Quality Adjustments

3-3-1. Preparation

1. Set in the service mode.
2. Set respective items as follows.

Adjustment Condition

DRC-MF : DRC1250
PICTURE MODE : HI-FINE
3D-NR MODE : OFF
ECO MODE : OFF
WIDE MODE : OFF

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	22
	06	DYC	00
	0C	GMS	00
	0D	GMR	00
	0E	GMG	00
	0F	GMB	00
	13	ABT	00
	14	CLO	07
	16	HUO	07
	19	PIO	00
JGL	03	BBT	00
	04	LML	03
	05	SCO	07
WHB	03	RDR	1F
	04	GDR	1F
	05	BDR	1F
	06	RCT	1F
	07	GCT	1F
	08	BCT	1F

3. Connect the oscilloscope probe to the following point on the A board.

Original Condition

DRC-MF : DRC1250
PICTURE MODE : HI-FINE
3D-NR MODE : OFF
ECO MODE : OFF
WIDE MODE : OFF

Category	Item		Data			
			50TV	50VIDEO	60TV	60VIDEO
SAJ	00	PIC	25 (HI-Fine)			
	02	COL	21 (HI-Fine)			
	06	DYC	00 (HI-Fine)			
	0C	GMS	00 (HI-Fine)			
	0D	GMR	00 (HI-Fine)			
	0E	GMG	00 (HI-Fine)			
	0F	GMB	00 (HI-Fine)			
	14	CLO	03	09	07	07
	16	HUO	05	04	07	07
	19	PIO	(TWIN)=07			
	13	ABT	00			
JGL	03	BBT	02			
	04	LML	00			
	05	SCO	05			

Measurement Point

A Board CN1100 :
① pin R100 → VR
⑤ pin B100 → VB

Note : After the adjustment 5-3. Picture Quality Adjustment, these adjustment parameters must be recovered to the original condition.

3-3-2. NTSC Video Input

1. Enter the NTSC video color bar (White & color 75%) signal.
2. Enter the service mode, and set respective items as follows.
3. Measure waveform, and each item is adjusted to become the following figure.
4. Press "(SWAP)" button on the commander, when the left screen and the right screen are changed.
5. After adjustment finished, press "(MUTE)" + "0" button to write the data to the NVM.

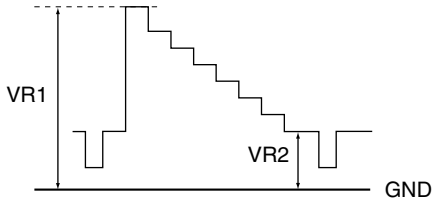
(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
	19	PIO	00

Adjusting Parameter :

LEFT screen : YCT 08 YOL
RIGHT screen : SYC 08 YOL



VR1 – VR2 = 1.73 ± 0.07 Vp-p

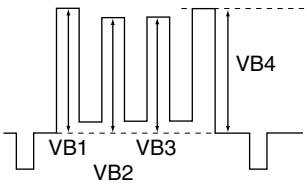
(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	22
	16	HUO	07

Adjusting Parameter :

LEFT screen : YCT 0A COL
00 TNT
RIGHT screen : SYC 0A COL
00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

3-3-3. NTSC RF Input

1. Enter the NTSC RF color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

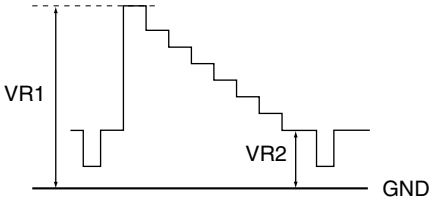
(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
	19	PIO	00

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 04 SCT



VR1 – VR2 = 1.73 ± 0.07 Vp-p

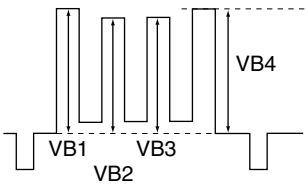
(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	22
	16	HUO	07

Adjusting Parameter :

LEFT screen : YCT 03 SCL
00 TNT
RIGHT screen : SYC 03 SCL
00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

3-3-4. PAL Video Input

1. Enter the PAL video color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

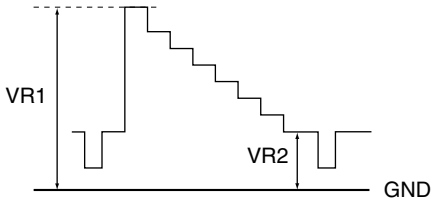
(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
	19	PIO	00

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 00 SCT



VR1 – VR2 = 1.73 ± 0.07 Vp-p

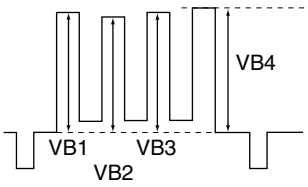
(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	22

Adjusting Parameter :

LEFT screen : YCT 03 SCL
RIGHT screen : SYC 03 SCL



VB1 = VB3 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

3-3-5. PAL RF Input

1. Enter the PAL RF color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

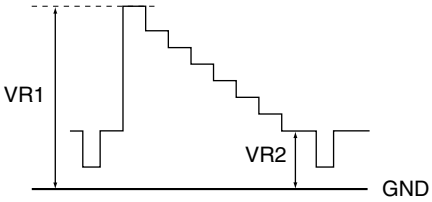
(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
	19	PIO	00

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 04 SCT



VR1 – VR2 = 1.73 ± 0.07 Vp-p

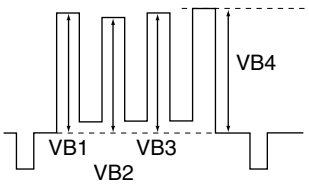
(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	22

Adjusting Parameter :

LEFT screen : YCT 03 SCL
RIGHT screen : SYC 03 SCL



VB1 = VB3 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

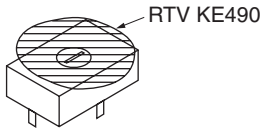
SECTION 4
SAFETY RELATED ADJUSTMENT

4-1. HV REGULATION ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

⊠ : VR8001
◪ : C8016, C8037,
D8020,
IC8001, IC8002,
Q8035, Q8043,
R8042, R8072, R8078, R8079, R8091, R8095
T8005(FBT),
D board

(1) Input all black signal, and put into Full mode and Standard.
Be sure to perform the HV adjustment within 1 to 3 minutes after the power on.
(2) Adjust RV8002 so that the HV voltage meets the specification below.
KV-HS34/38 : 32.3 ±0.1 kV
KV-HS29 : 30.3 ±0.1 kV
(3) After the check is finished, put the VR cover on RV8002, and fixed it with RTV.



VR8001, VR8002

Fig. 4-1

4-2. HV HOLD-DOWN ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

⊠ : VR8002
◪ : IC8004, IC8005, IV8006
PH8003
R8014, R8015, R8017, R8128, R8129, R8131,
T8005(FBT)

4-2-1. HV Protector Adjustment

(1) Input the all white signal.
(2) Turn RV8001 fully clockwise.
(3) Adjust RV8002 so that the HV voltage meets the specification below.
KV-HS34/38 : 36.0 ±0.1 kV
KV-HS29 : 34.3 ±0.1 kV
(4) Turn RV8001 slowly and stops its rotation when the voltage becomes fold-down.

4-2-2. HV Protector Check

(1) Input the all white signal.
(2) Adjust RV8002 so that the HV voltage meets the specification below.
KV-HS34/38 : 35.0 ±0.1 kV
KV-HS29 : 35.3 ±0.1 kV
*: Check that the fold-down is not activated.
*: Measure the positive terminal (+) of C8002, and check that it is Low.
(3) Short between both leads of C8006.
(4) Adjust RV8002 so that the HV voltage meets the specification below.
KV-HS34/38 : 36.0 ±0.1 kV
KV-HS29 : 34.3 ±0.1 kV
(5) Open the positive terminal (+) of C8006 from short circuit.
Check that the hold-down is activated.
(6) Short the positive terminal (+) of C8006.
(7) Apply 5.5 V between both leads of C8016.
Check the HV falls down.
(8) Disconnect the 5.5 V from both leads of C8016.
Check that the HV returns.
(9) After the check is finished, put the VR cover on RV8001, and fixed it with RTV.

4-3. +B MAX VOLTAGE CONFIRMATION

(1) Supply Power Voltage
Apply the following voltage between pins 1 and 5 of CN6604.
(Input the voltage to the dummy F1 Board.)

	(AC IN)	(Area)
315 ±10 V	242 V	110 to 220 VAC
347 ±10 V	264 V	240 VAC
304 ±10 V	121 V	110 VAC
		(AC 10% UP)

(2) +B Voltage Check
Check that the voltage between both leads of C6688 meets the specification below.

+B Voltage = 136.3 V or less

4-4. +B OVP CONFIRMATION

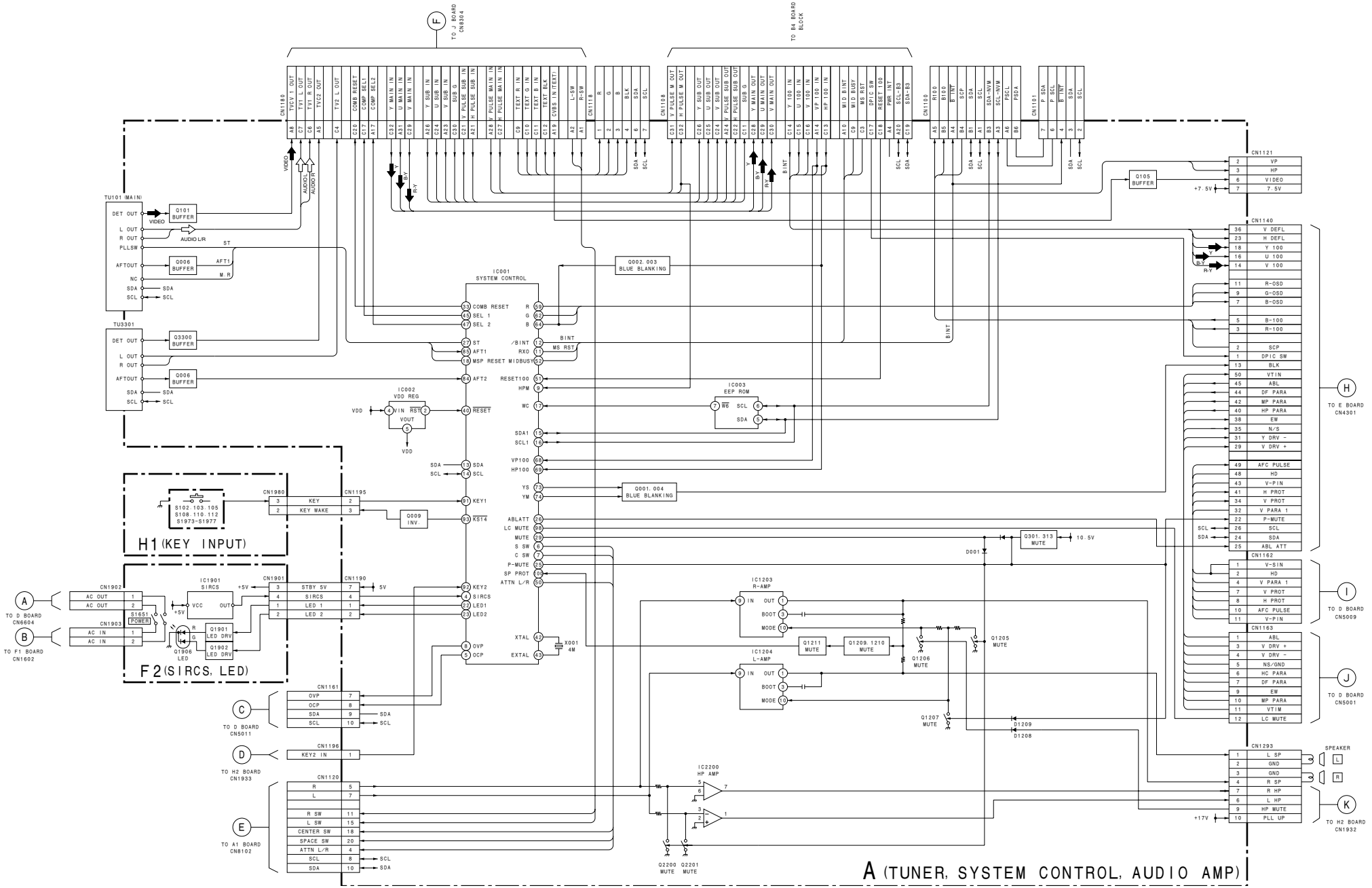
(1) OVP Check
Disconnect the 220 V AC which are applied between pin1and5 of CN6604, and apply 145 +/-1V to both leads of C6688.
Apply 220 V AC between pins 1 and 5 of CN6604. (Input the voltage to the dummy F Board.)
Check that the voltage of pin 7 of CN6101 (Main 12 V) is less than or equal 0.8 V.

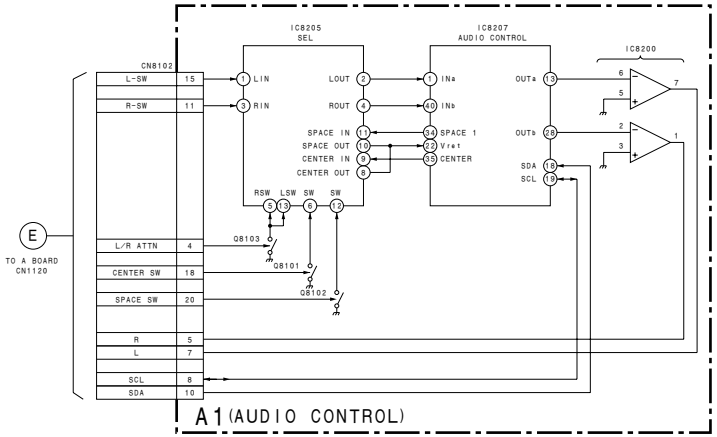
(2) Cancellation of Rach
Disconnect the 220 V AC which are applied between pins 1 and 5 of CN6604. (Be sure to turn off the AC power more than 1 second.)

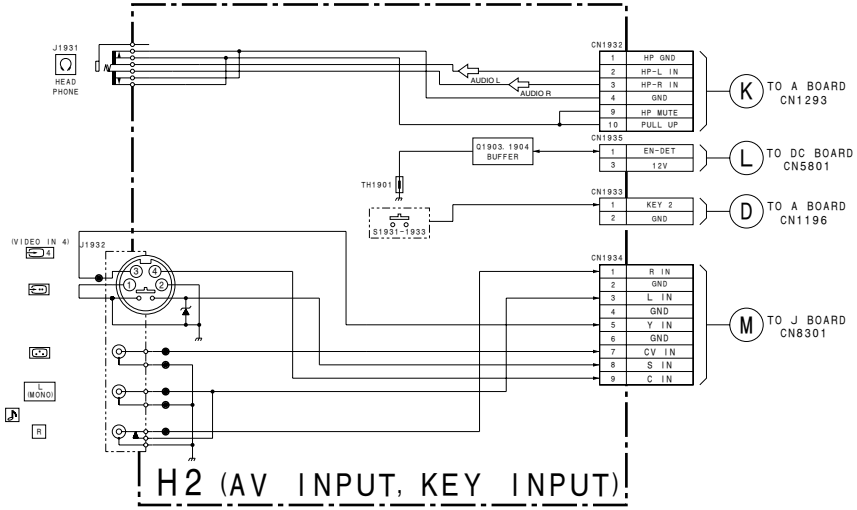
(3) Return of OVP
Apply 220 V AC between pins 1 and 5 of CN6604.

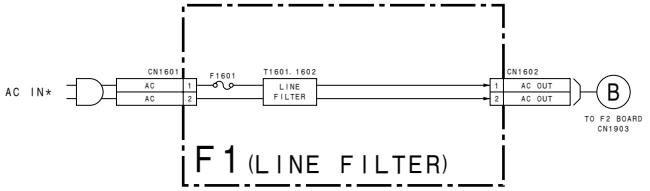
5-1. BLOCK DIAGRAM

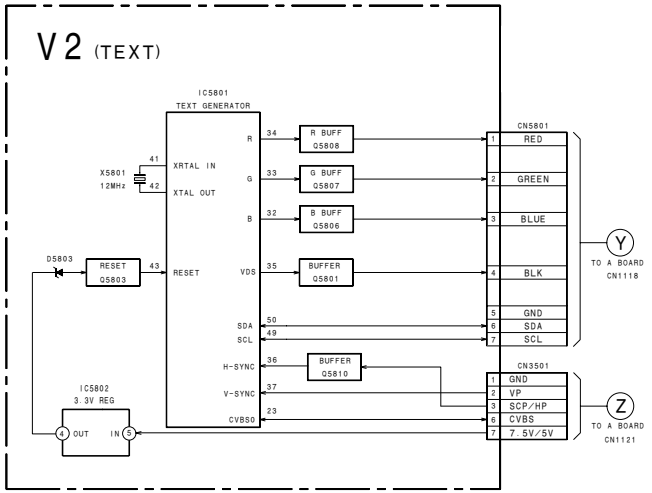
SECTION 5
DIAGRAMS





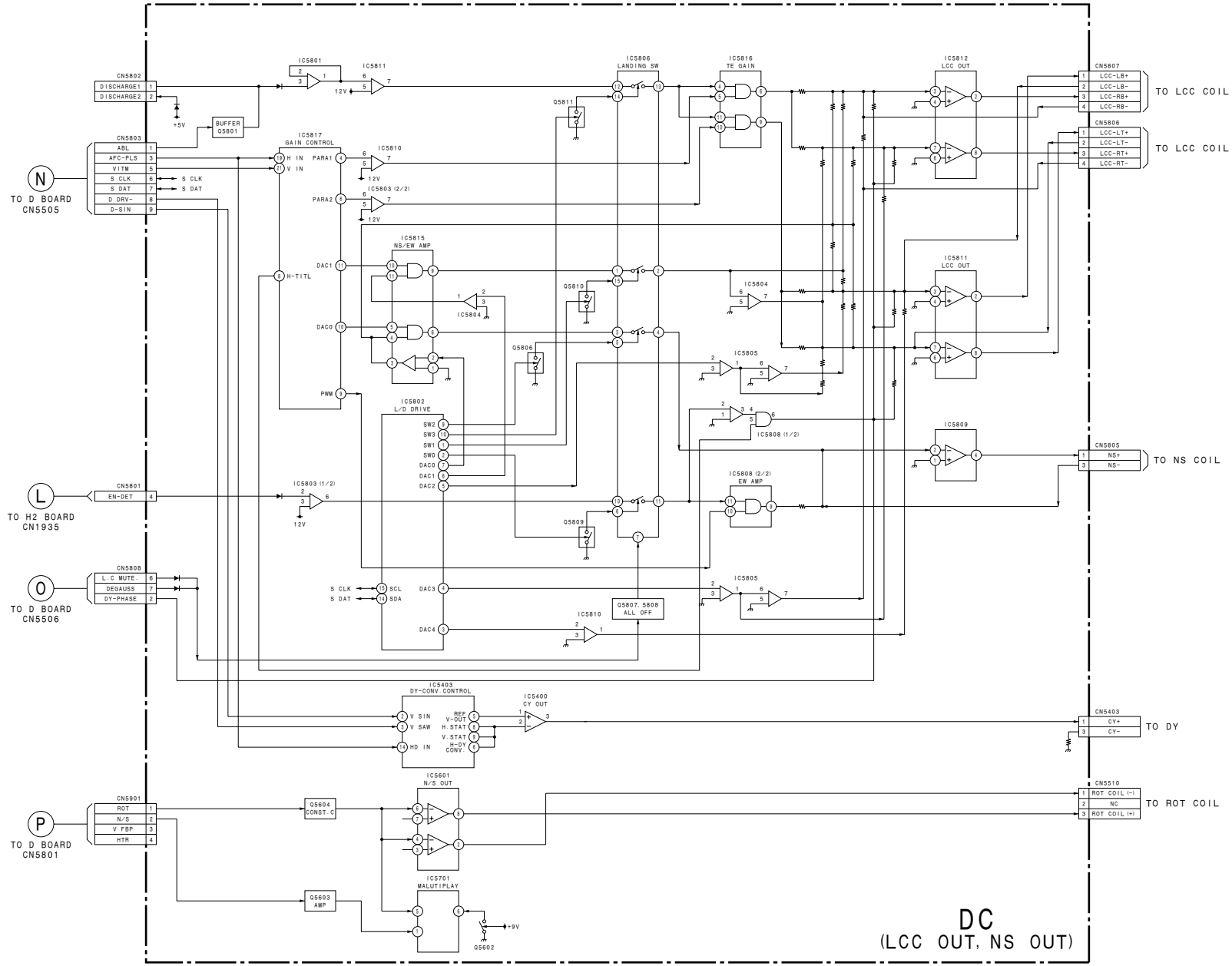






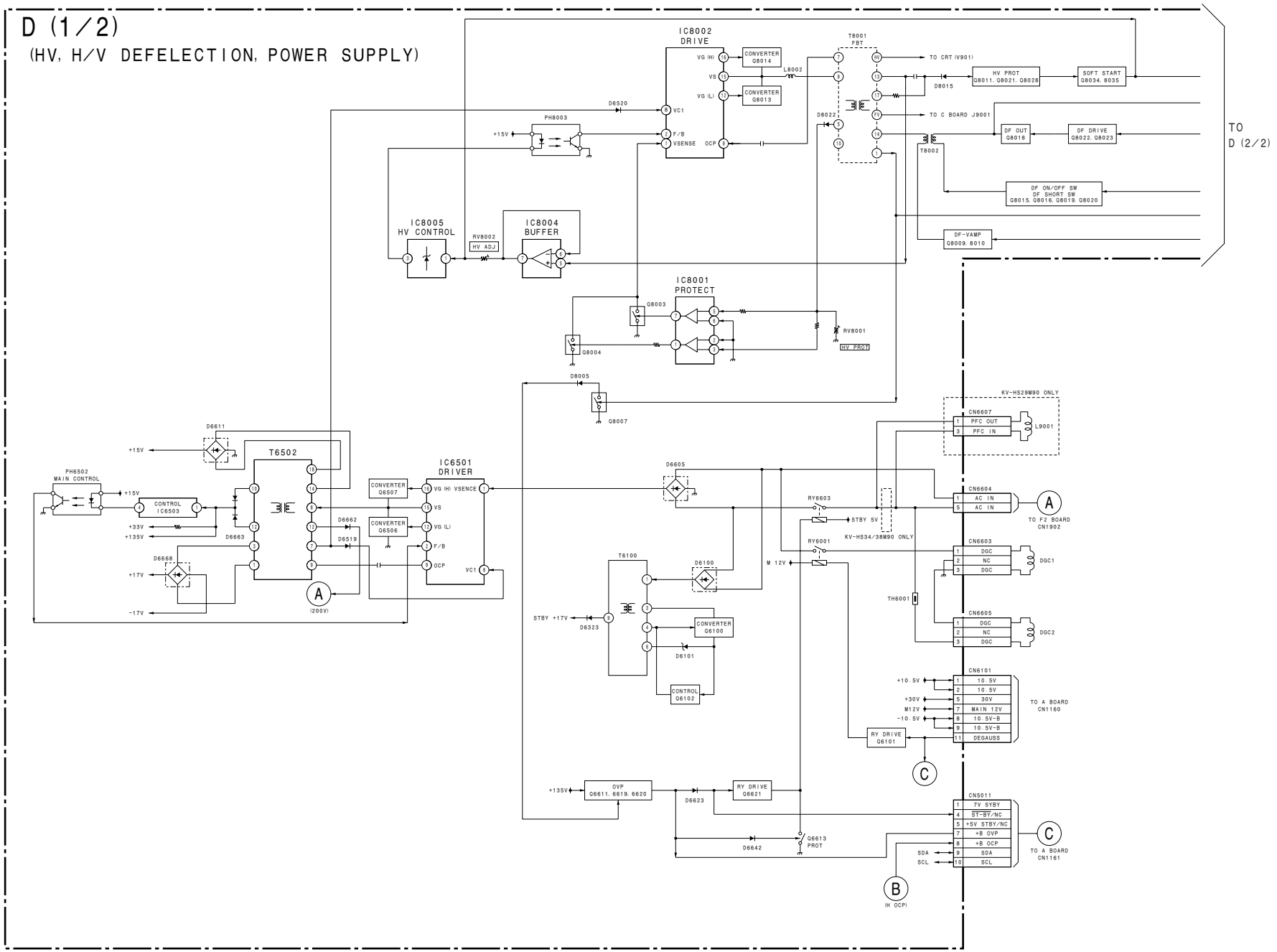
* VOLTAGE TABLE BY MODEL

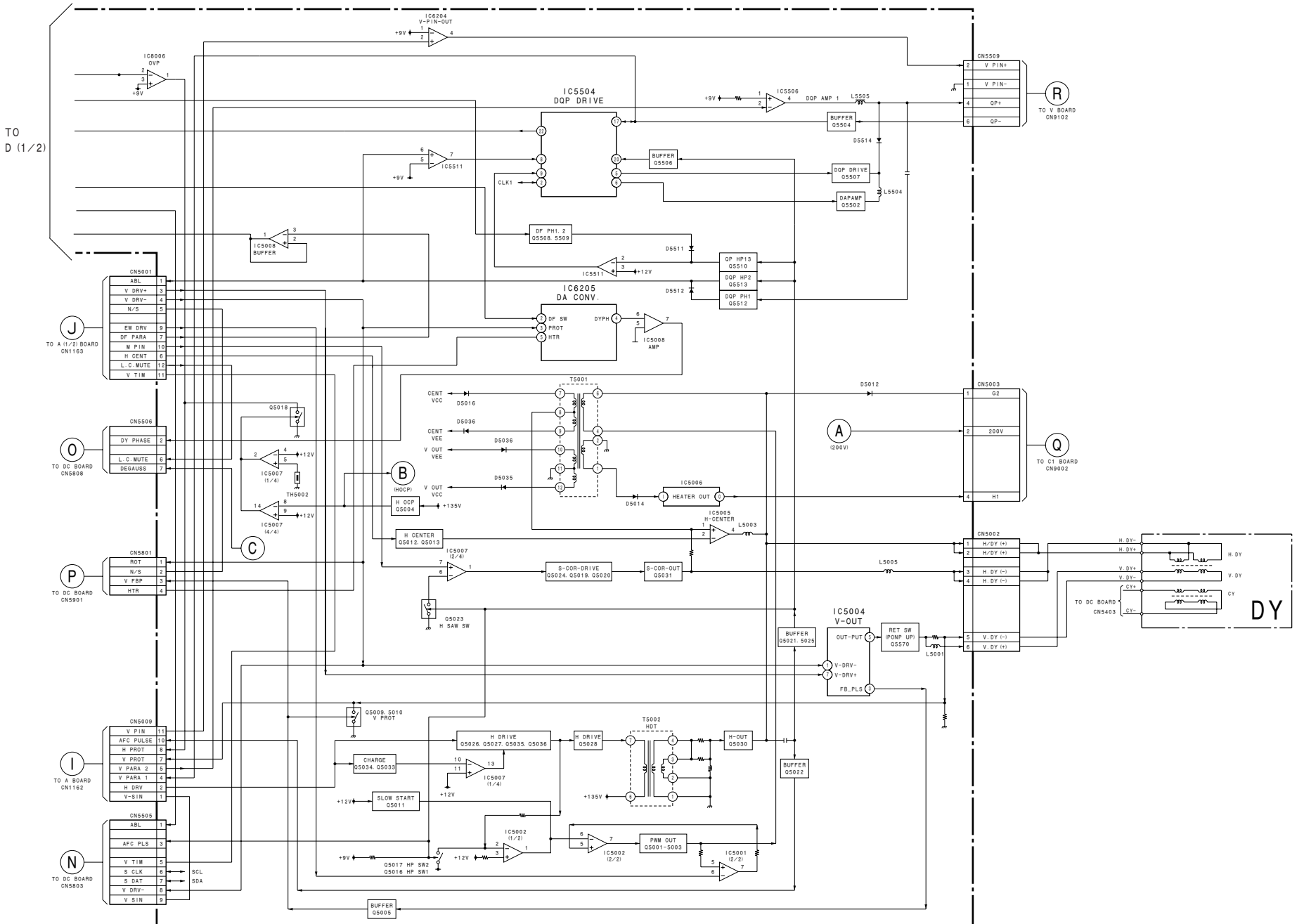
MODEL	VOLTAGE
KV-HS29M61 KV-HS29M91 KV-HS34M61 KV-HS34M91	110V-240V AC 50/60Hz
KV-HS29M90 KV-HS34M90	220V AC, 50Hz
KV-HS38M61 KV-HS38M90 KV-HS38M91	220V-240V AC 50/60Hz


CN5802
DISCHARGE1
DISCHARGE2
+5V
BUFFER Q5801
CN5803
ABL
AFC-PLS
V/TM
S CLK
S DAT
D DRV-
D-SIN
S CLK
S DAT
N
TO D BOARD CN5505
IC5801
IC5811
12V
IC5817 GAIN CONTROL
H IN
V IN
H-TITL
PARA1
PARA2
DAC1
DAC0
PWM
IC5810
IC5803 (2/2)
IC5815 NS/EW AMP
IC5804
IC5802 L/D DRIVE
SW2
SW3
SW1
SW0
DAC0
DAC1
DAC2
CN5801
EN-DET
L
TO H2 BOARD CN1935
IC5803 (1/2)
CN5808
L.C MUTE
DEGAUSS
DY-PHASE
O
TO D BOARD CN5506
S CLK
S DAT
SCL
SDA
DAC3
DAC4
IC5810
Q5807, 5808 ALL OFF
IC5403 DY-CONV.CONTROL
V SIN
V SAW
HD IN
REF
V-OUT
H.STAT
V.STAT
H-DY CONV.
IC5400 CY OUT
CN5403
CY+
CY-
TO DY
CN5901
ROT
N/S
V FBP
HTR
P
TO D BOARD CN5801
Q5604 CONST.C
Q5603 AMP
IC5601 N/S OUT
IC5701 MALUTIPLAY
+9V
Q5602
CN5510
ROT COIL (-)
NC
ROT COIL (+)
TO ROT COIL
IC5806 LANDING SW
Q5811
Q5810
Q5806
Q5809
IC5816 TE GAIN
IC5804
IC5805
IC5808 (1/2)
IC5808 (2/2) EW AMP
IC5805
IC5812 LCC OUT
CN5807
LCC-LB+
LCC-LB-
LCC-RB+
LCC-RB-
TO LCC COIL
CN5806
LCC-LT+
LCC-LT-
LCC-RT+
LCC-RT-
TO LCC COIL
IC5811 LCC OUT
IC5809
CN5805
NS+
NS-
TO NS COIL
DC
(LCC OUT, NS OUT)

D (1/2)

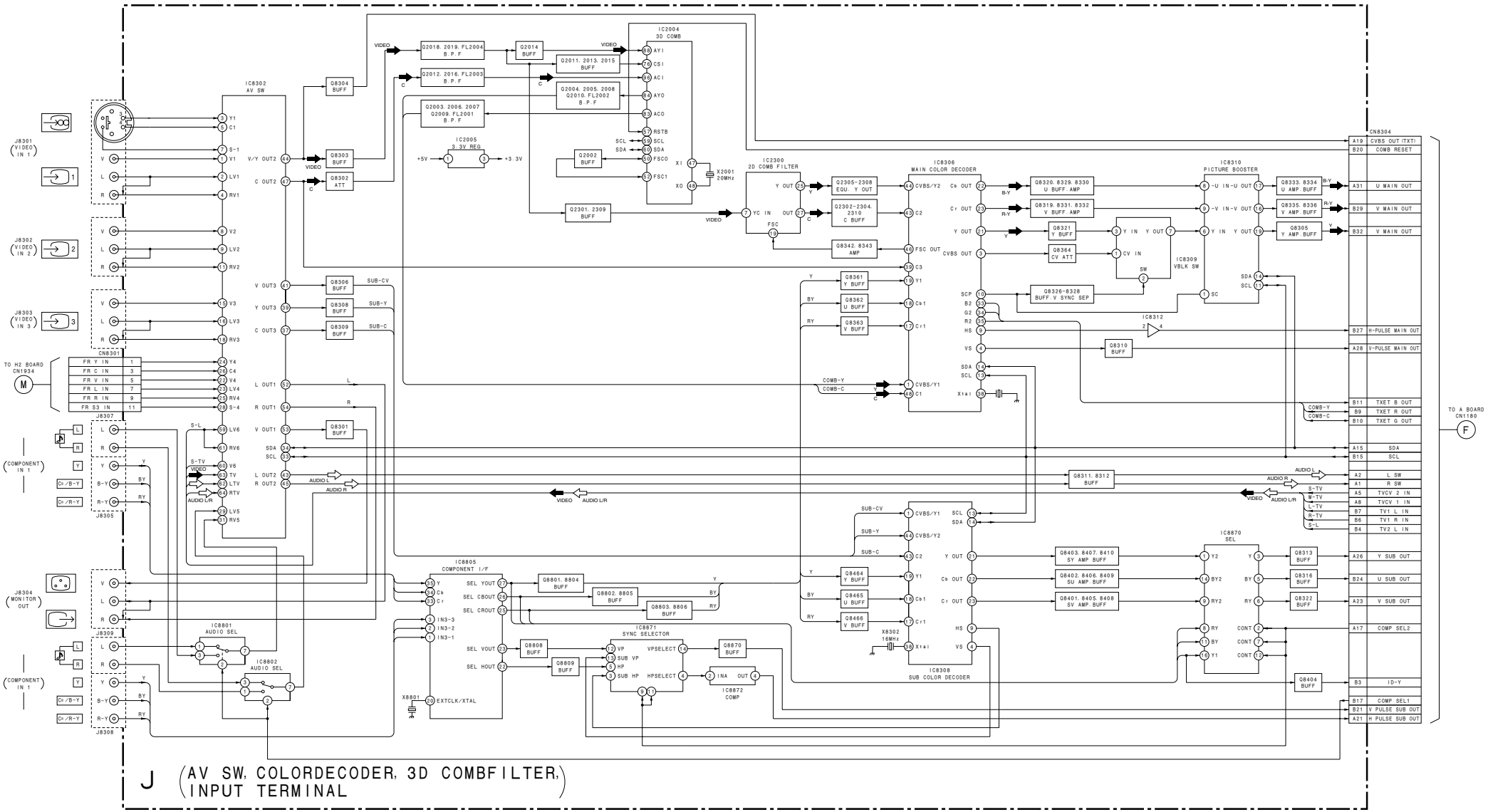
(HV, H/V DEFELECTION, POWER SUPPLY)

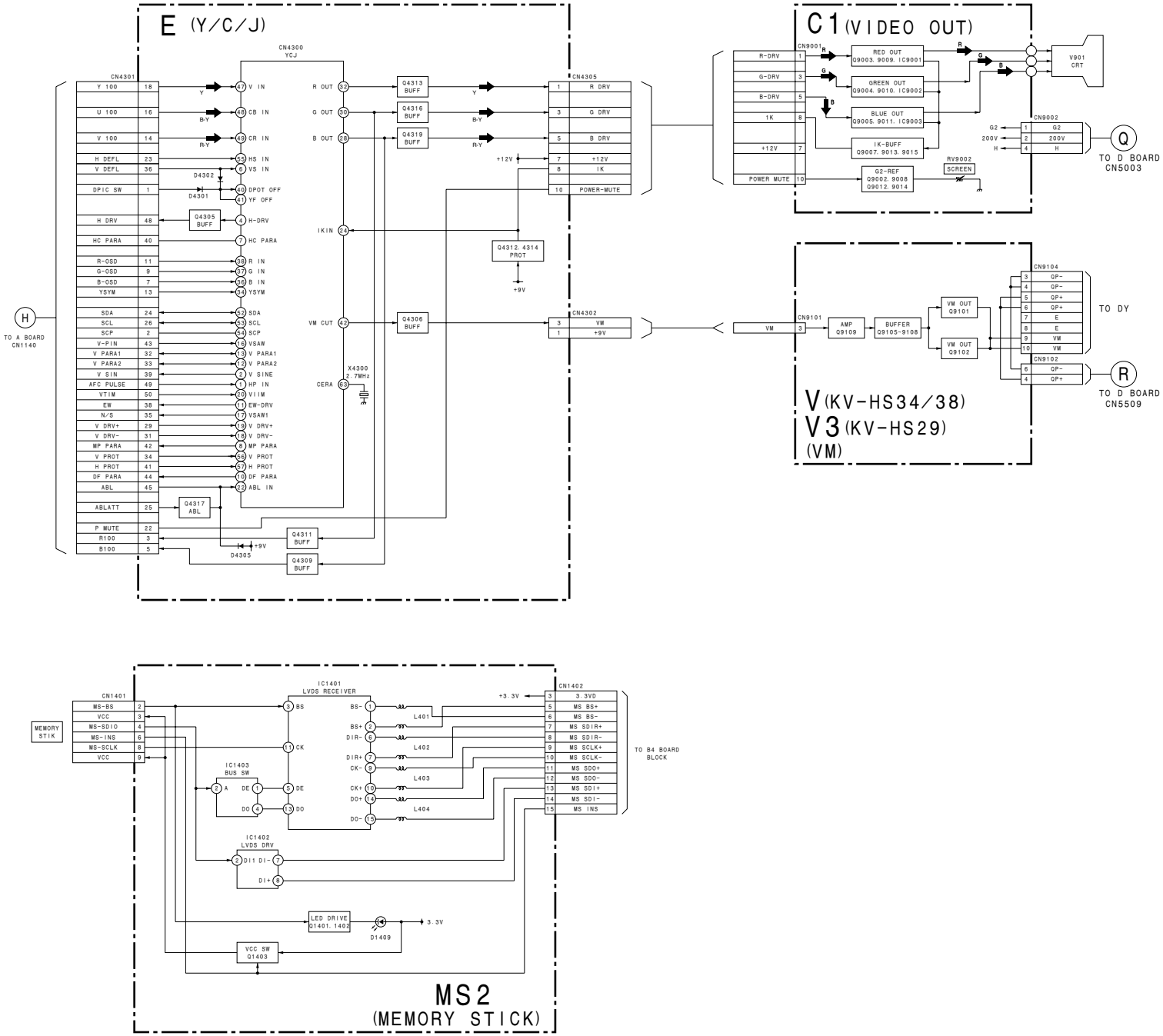


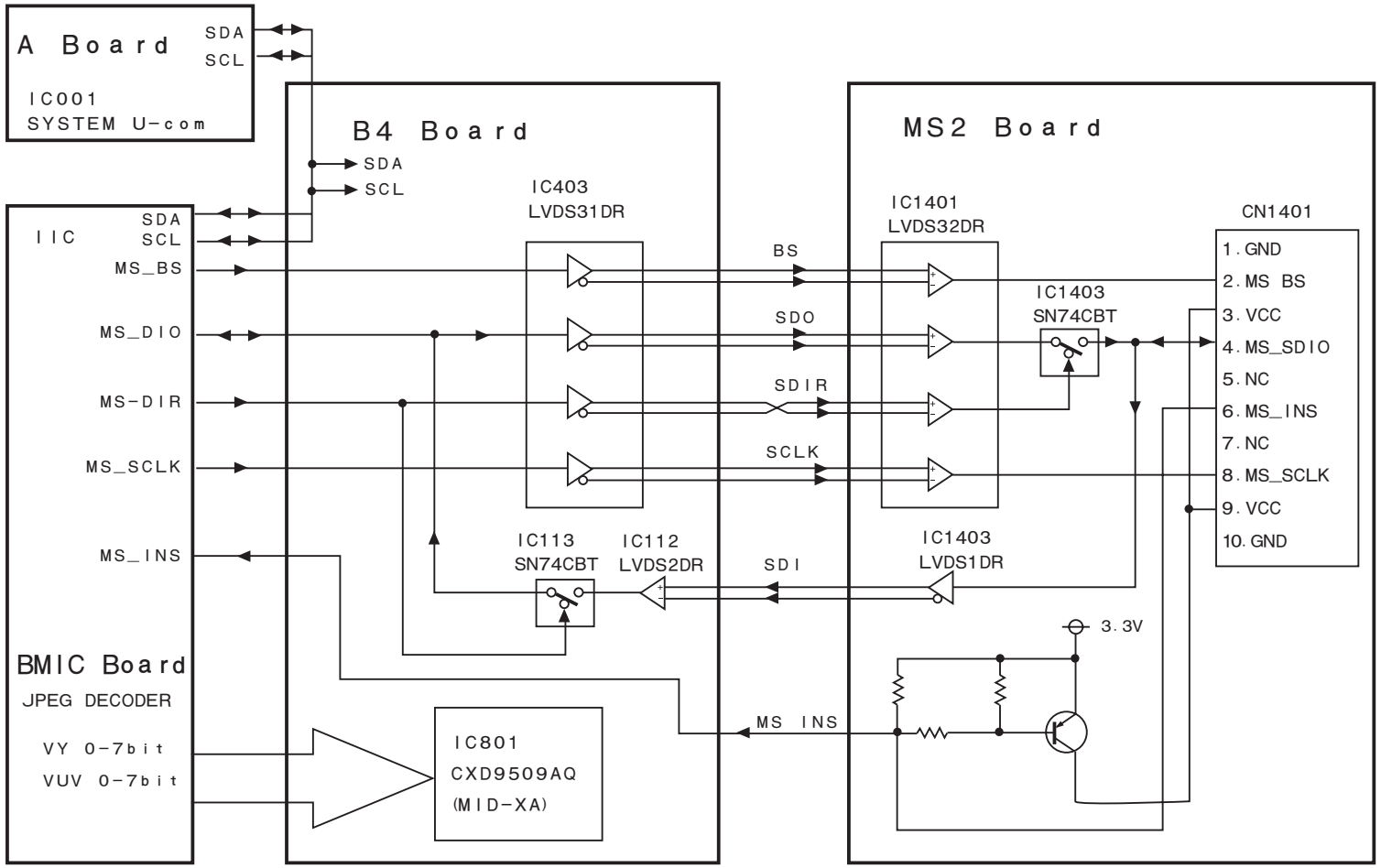


D (2/2)

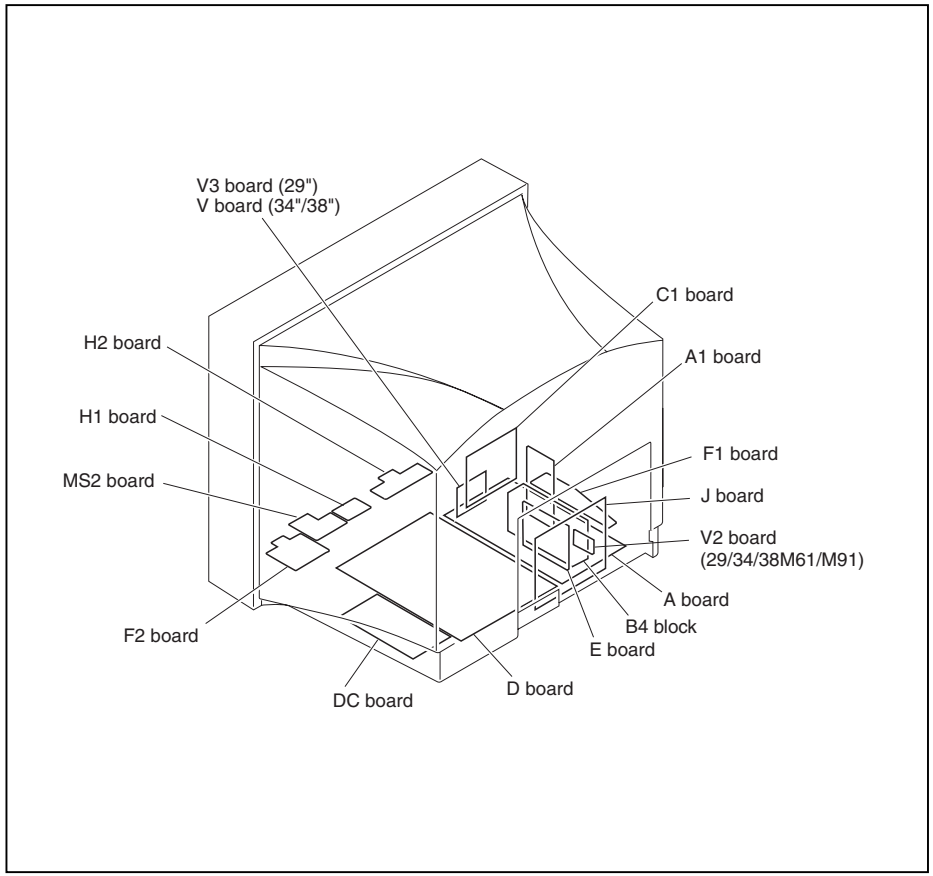
(HV, H/V DEFELECTION, POWER SUPPLY)


J
(AV SW, COLORDECODER, 3D COMBFILTER, INPUT TERMINAL)
IC8302 AV SW
IC2004 3D COMB
IC2300 2D COMB FILTER
IC8306 MAIN COLOR DECODER
IC8310 PICTURE BOOSTER
IC8309 VBLK SW
IC8312
IC8805 COMPONENT I/F
IC8871 SYNC SELECTOR
IC8872 COMP
IC8308 SUB COLOR DECODER
IC8870 SEL
IC8801 AUDIO SEL
IC8802 AUDIO SEL
IC2005 3.3V REG
X2001 20MHz
X8302 16MHz
X8801
J8301 (VIDEO IN 1)
J8302 (VIDEO IN 2)
J8303 (VIDEO IN 3)
J8304 (MONITOR OUT)
J8305 (COMPONENT IN 1)
J8307
J8308 (COMPONENT IN 1)
J8309
CN8301
CN8304
TO H2 BOARD CN1934
TO A BOARD CN1180
Q2018. 2019. FL2004 B. P. F
Q2012. 2016. FL2003 B. P. F
Q2003. 2006. 2007 Q2009. FL2001 B. P. F
Q2014 BUFF
Q2011. 2013. 2015 BUFF
Q2004. 2005. 2008 Q2010. FL2002 B. P. F
Q2002 BUFF
Q2301. 2309 BUFF
Q2305-2308 EQU. Y OUT
Q2302-2304. 2310 C BUFF
Q8342. 8343 AMP
Q8304 BUFF
Q8303 BUFF
Q8302 ATT
Q8306 BUFF
Q8308 BUFF
Q8309 BUFF
Q8301 BUFF
Q8361 Y BUFF
Q8362 U BUFF
Q8363 V BUFF
Q8464 Y BUFF
Q8465 U BUFF
Q8466 V BUFF
Q8320. 8329. 8330 U BUFF. AMP
Q8319. 8331. 8332 V BUFF. AMP
Q8321 Y BUFF
Q8364 CV ATT
Q8326-8328 BUFF. V SYNC SEP
Q8310 BUFF
Q8311. 8312 BUFF
Q8333. 8334 U AMP. BUFF
Q8335. 8336 V AMP. BUFF
Q8305 Y AMP. BUFF
Q8403. 8407. 8410 SY AMP. BUFF
Q8402. 8406. 8409 SU AMP. BUFF
Q8401. 8405. 8408 SV AMP. BUFF
Q8313 BUFF
Q8316 BUFF
Q8322 BUFF
Q8404 BUFF
Q8801. 8804 BUFF
Q8802. 8805 BUFF
Q8803. 8806 BUFF
Q8808 BUFF
Q8809 BUFF
Q8870 BUFF
VIDEO
S-L
S-TV
AUDIO L/R
AUDIO L
AUDIO R
SUB-CV
SUB-Y
SUB-C
COMB-Y
COMB-C
CVBS OUT (TXT)
COMB RESET
U MAIN OUT
V MAIN OUT
H-PULSE MAIN OUT
V-PULSE MAIN OUT
TXET B OUT
TXET R OUT
TXET G OUT
SDA
SCL
L SW
R SW
TVCV 2 IN
TVCV 1 IN
TV1 L IN
TV1 R IN
TV2 L IN
Y SUB OUT
U SUB OUT
V SUB OUT
COMP SEL2
ID-Y
COMP SEL1
V PULSE SUB OUT
H PULSE SUB OUT


E (Y/C/J)
C1 (VIDEO OUT)
V (KV-HS34/38)
V3 (KV-HS29)
(VM)
MS2
(MEMORY STICK)
TO A BOARD CN1140
TO D BOARD CN5003
TO D BOARD CN5509
TO DY
TO B4 BOARD BLOCK
MEMORY STIK
CN4300 YCJ
CN4301
CN4305
CN4302
CN9001
CN9002
CN9101
CN9102
CN9104
CN1401
CN1402
IC1401 LVDS RECEIVER
IC1403 BUS SW
IC1402 LVDS DRV
RED OUT Q9003. 9009. IC9001
GREEN OUT Q9004. 9010. IC9002
BLUE OUT Q9005. 9011. IC9003
IK-BUFF Q9007. 9013. 9015
G2-REF Q9002. 9008 Q9012. 9014
V901 CRT
RV9002 SCREEN
AMP Q9109
BUFFER Q9105-9108
VM OUT Q9101
VM OUT Q9102
LED DRIVE Q1401. 1402
VCC SW Q1403
X4300 27MHz


A Board
SDA
SCL
IC001
SYSTEM U-com
B4 Board
SDA
SCL
IC403
LVDS31DR
IIC
SDA
SCL
MS_BS
MS_DIO
MS-DIR
MS_SCLK
MS_INS
BS
SDO
SDIR
SCLK
SDI
IC113
SN74CBT
IC112
LVDS2DR
BMIC Board
JPEG DECODER
VY 0-7bit
VUV 0-7bit
IC801
CXD9509AQ
(MID-XA)
MS INS
MS2 Board
IC1401
LVDS32DR
IC1403
SN74CBT
IC1403
LVDS1DR
3.3V
CN1401
1. GND
2. MS BS
3. VCC
4. MS_SDIO
5. NC
6. MS_INS
7. NC
8. MS_SCLK
9. VCC
10. GND

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS

Note:

- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ✻ : Can not be measured.
- NO MARK: Common
- < > : SECAM
- ( ) : NTSC 3.58 MHz
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

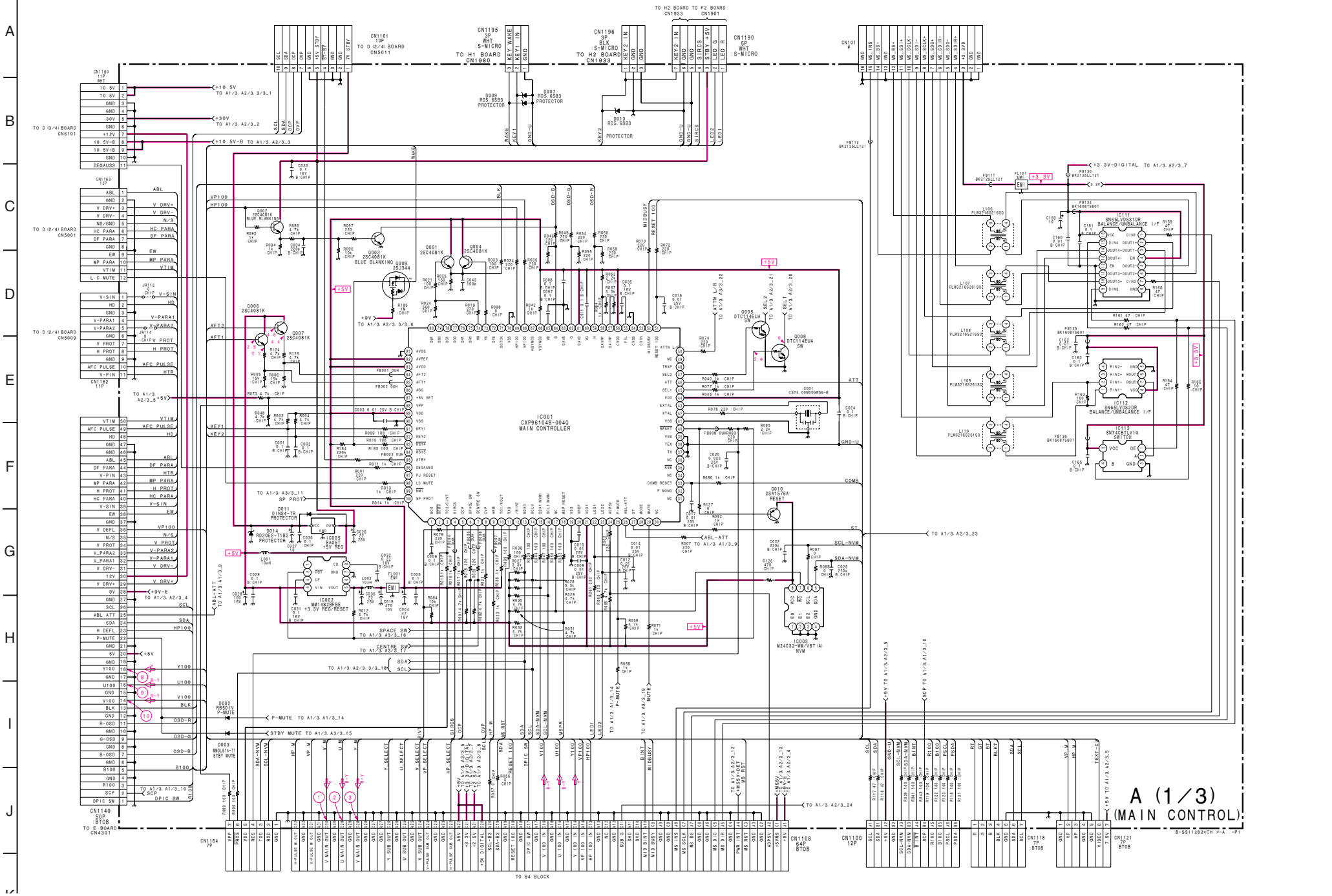
Terminal name of semiconductors in silk screen printed circuit (✻)

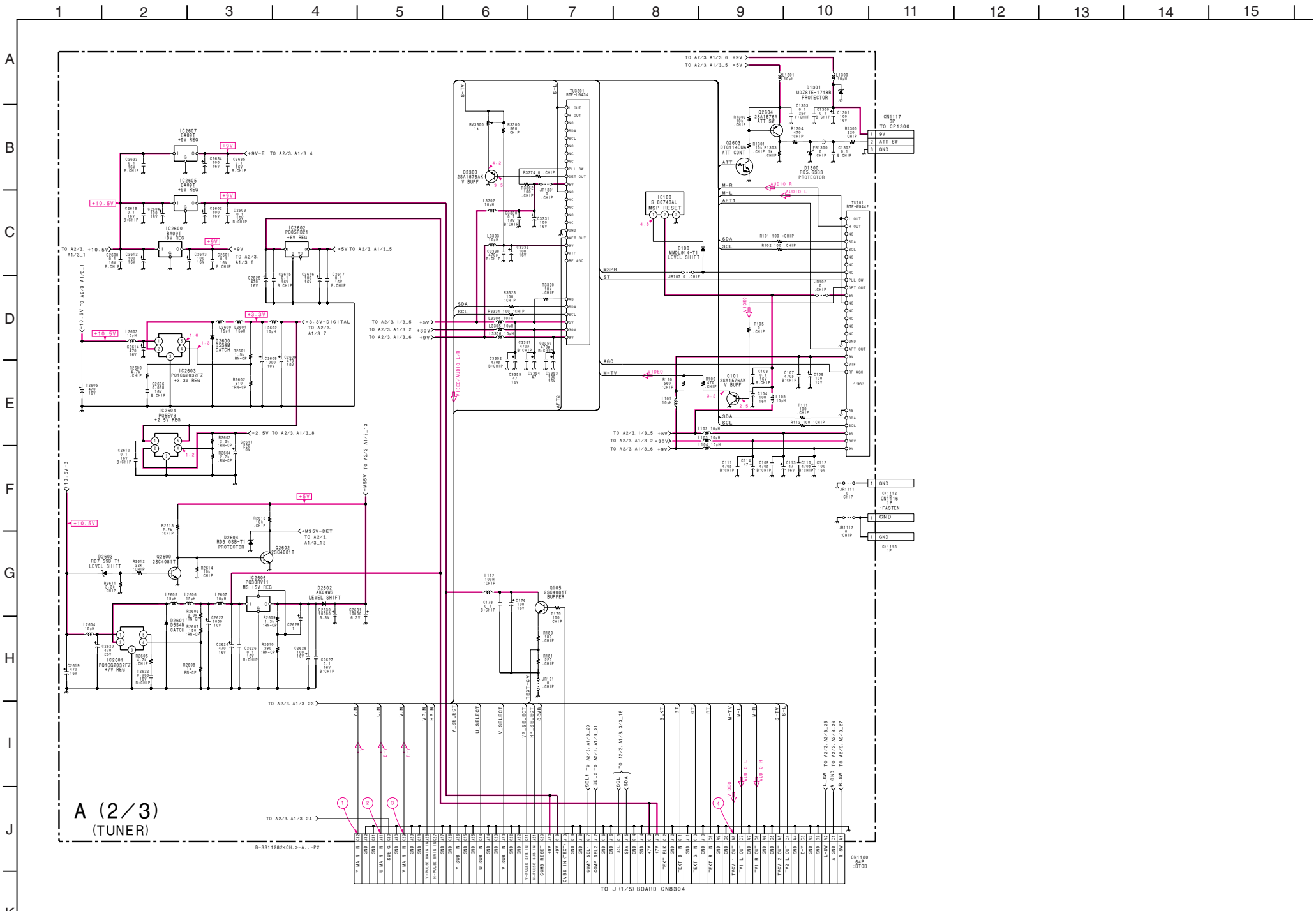
	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector / Base / Emitter	
②	Transistor		Collector / Base / Emitter	
③	Diode		Cathode / Anode	
④	Diode		Cathode / Anode (NC)	
⑤	Diode		Cathode / Anode (NC)	
⑥	Diode		Common / Anode / Cathode	
⑦	Diode		Common / Anode Cathode	
⑧	Diode		Common / Anode / Anode	
⑨	Diode		Common / Anode Anode	
⑩	Diode		Common / Cathode / Cathode	
⑪	Diode		Common / Cathode Cathode	
⑫	Diode		Anode Anode Cathode / Cathode Anode Anode	
⑬	Transistor (FET)		Drain / Source / Gate	
⑭	Transistor (FET)		Drain / Source / Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C2 B1 E1 / E2 B2 C1	
⑱	Transistor		C1 B2 E2 / E1 B1 C2	
⑲	Transistor		C1 B2 E2 / E1 B1 C2	
⑳	Transistor		C1 B2 E2 / E1 B1 C2	
㉑	Transistor		E2 B1 E1 / C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 / C1 C2	
㉓	Transistor		(B2) E2 E1 B1 / C2 C1	
–	Discrete semiconductot			

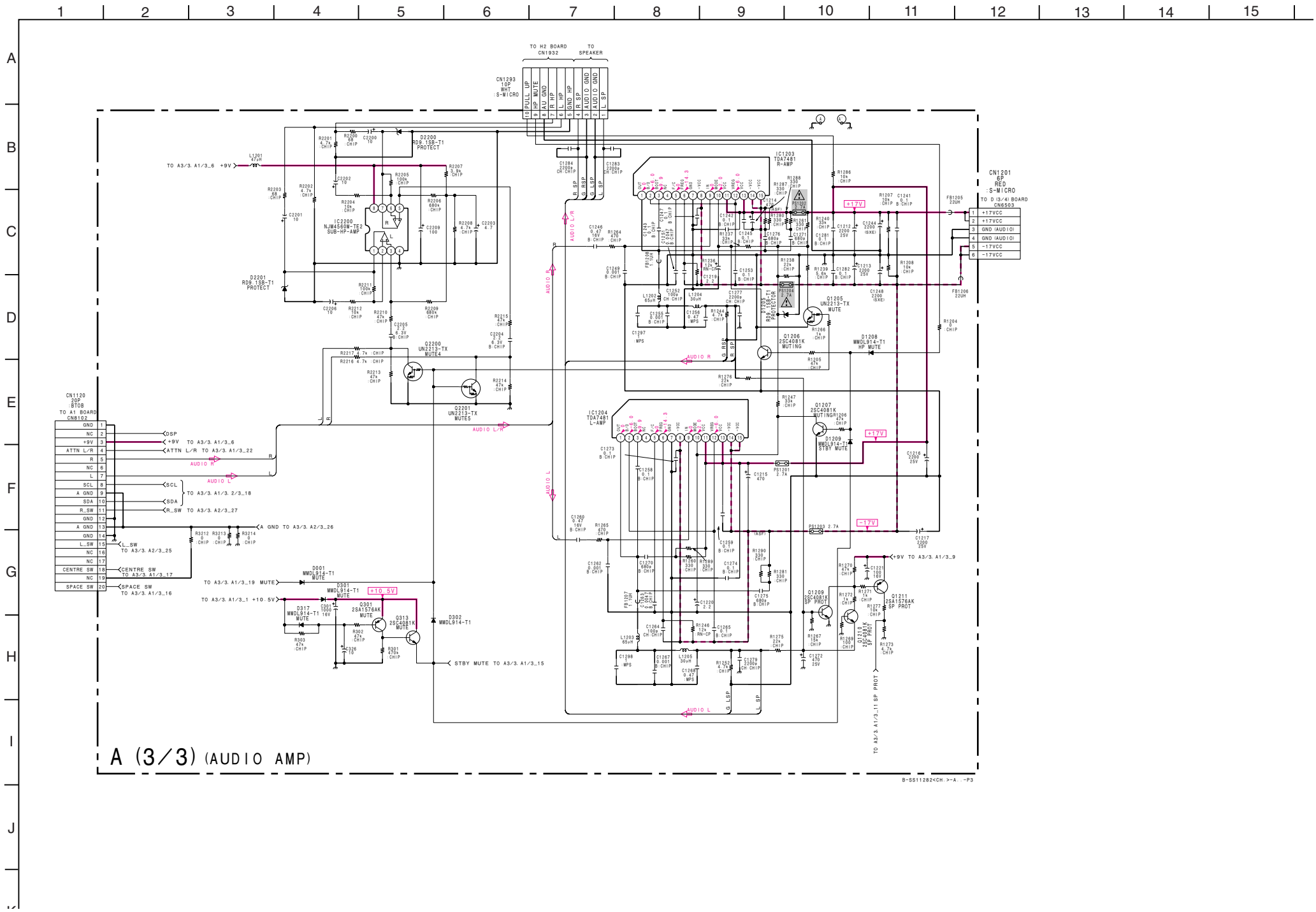
(Chip semiconductors that are not actually used are included.)

Ver.1.5

(1) Schematic Diagram of A(1/3) Board

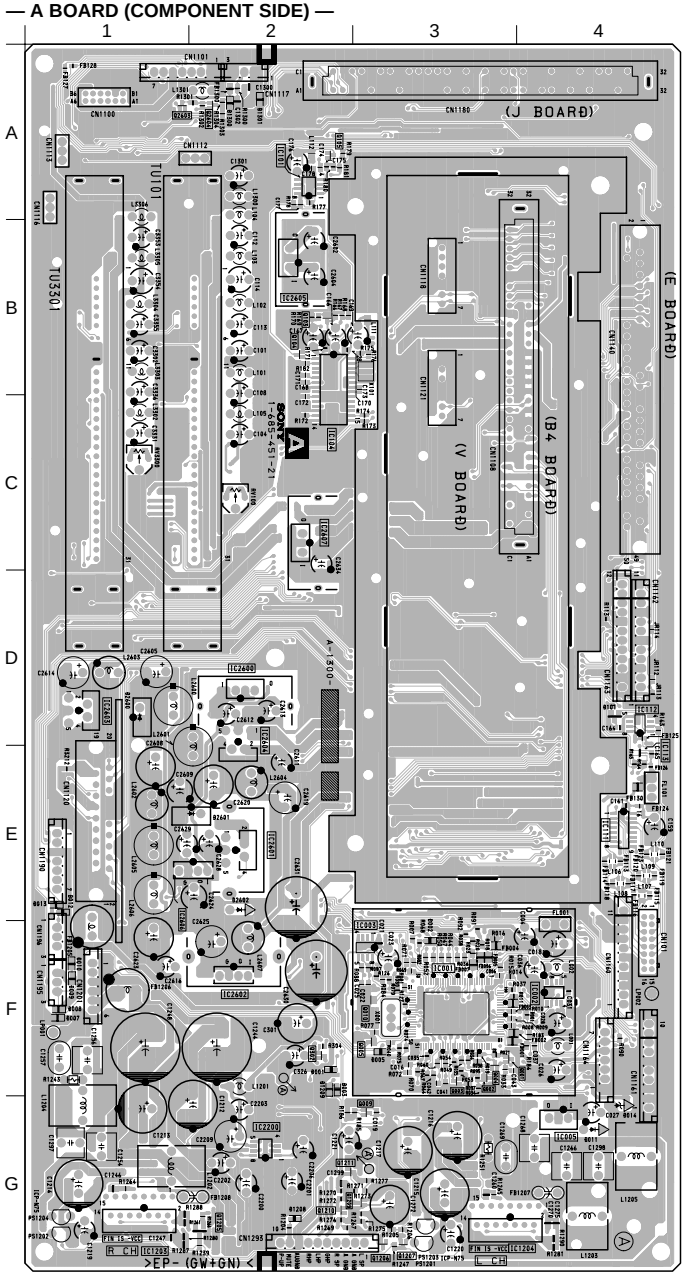



A (2/3)
(TUNER)
IC2607 BA09T +9V REG
IC2605 BA09T +9V REG
IC2600 BA09T +9V REG
IC2602 PQ05RD21 +5V REG
IC2603 PQ1CG203ZFZ +3.3V REG
IC2604 PQ5EV3 +2.5V REG
IC2606 PG30RV11 MS +5V REG
IC2601 PQ1CG203ZFZ +7V REG
IC100 S-80743AL MSP-RESET
TU3301 BTF-LG434
TU101 BTF-WG442
Q2604 2SA1576A ATT SW
Q2603 DTC114EUA ATT CONT
Q3300 2SA1576AK V BUFF
Q101 2SA1576AK V BUFF
Q105 2SC4081T BUFFER
Q2602 2SC4081T
Q2600 2SC4081T
D1301 UDZSTE-17188 PROTECTOR
D1300 RDS 6SB3 PROTECTOR
D100 MMDL914-T1 LEVEL SHIFT
D2600 DSS4M CATCH
D2601 DSS4M CATCH
D2602 AK04WS LEVEL SHIFT
D2603 RD7.5SB-T1 LEVEL SHIFT
D2604 RD3.9SB-T1 PROTECTOR
CN1117 3P TO CP1300
CN1112 CN1116 1P FASTEN
CN1113 1P
CN1180 64P BTOB
TO J (1/5) BOARD CN8304
B-SS1202<CH.>-A...-P2

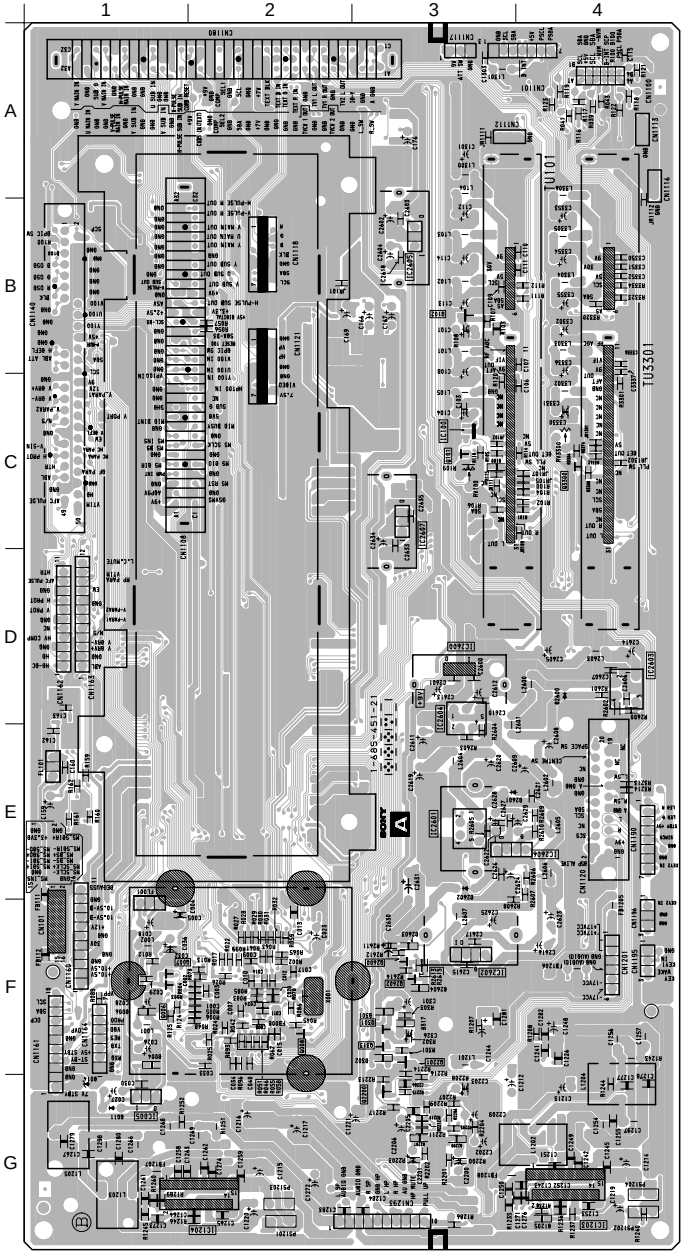

A (3/3) (AUDIO AMP)
CN1293 10P WHT :S-MICRO
CN1201 6P RED :S-MICRO
CN1120 20P :BTOB
IC1203 TDA7481 R-AMP
IC1204 TDA7481 L-AMP
IC2200 NJM4560M-TE2 SUB-HP-AMP
Q2200 UN2213-TX MUTE4
Q2201 UN2213-TX MUTE5
Q1205 UN2213-TX MUTE
Q1206 2SC4081K MUTING
Q1207 2SC4081K MUTING
D2200 RD9.1SB-T1 PROTECT
D2201 RD9.1SB-T1 PROTECT
D1208 MMDL914-T1 HP MUTE
D1209 MMDL914-T1 STBY MUTE
D001 MMDL914-T1 MUTE
D301 MMDL914-T1 MUTE
D317 MMDL914-T1 MUTE
D302 MMDL914-T1
Q301 2SA1576AK MUTE
Q313 2SC4081K MUTE
Q1209 2SC4081K SP PROT
Q1211 2SA1576AK SP PROT
Q1210 2SC4081K SP PROT
+17V
-17V
+10.5V
MUTE
STBY MUTE TO A3/3. A1/3_15
AUDIO L/R
AUDIO R
AUDIO L
B-SS11282<CH.>-A..-P3

A [TUNER, MAIN CONTRPL, AIDIO AMP]

— A BOARD (COMPONENT SIDE) —



— A B0ARD (CODUCTOR SIDE)—



• A BOARD SEMICONDUCTOR LOCATION

IC

	(Component Side)	(Conductor Side)
IC001	F-3	
IC002	F-4	
IC003	F-3	
IC005	G-4	G-1
IC100		C-3
IC111	E-4	
IC112	D-4	
IC113	E-4	
IC1203	G-1	G-4
IC1204	G-3	G-2
IC2200	G-2	
IC2600	D-2	D-3
IC2601	E-2	E-3
IC2602	F-2	F-3
IC2603	D-1	D-4
IC2604	E-2	D-3
IC2605	B-2	
IC2606	E-1	E-3
IC2607	C-2	C-3

TRANSISTOR

	(Component Side)	(Conductor Side)	*
Q001	F-3		②
Q002	F-3		②
Q003	F-3		②
Q004	F-3		②
Q005	F-3		②
Q006		F-1	①
Q007		F-1	①
Q008		F-2	①
Q009	G-3		⑬
Q010	F-3		②
Q101		C-3	①
Q105	A-2		②
Q301		F-3	①
Q302	F-2		-
Q313		F-3	①
Q1205	G-2		②
Q1206	G-3		②
Q1207	G-3		②
Q1209	G-3		②
Q1210	G-2		②
Q1211	G-2		②
Q2200		G-3	①
Q2201		F-3	①
Q2600		F-2	①
Q2602		F-3	①
Q2603	A-1		②
Q2604	A-2		②
Q3300		C-4	①

DIODE

	(Component Side)	(Conductor Side)	*
D001	F-2		③
D002	F-3		③
D003	F-2		③
D007	F-1		③
D009	F-1		③
D011	G-4	G-1	-
D013	E-1		③
D014	G-4	G-1	-
D100		C-3	③
D301		F-3	③
D302		F-3	③
D317		F-3	③
D1205		G-4	③
D1208	G-2		③
D1209	F-2		③
D1300	A-2		③
D1301	A-2		③
D2200		G-3	③
D2201		G-3	③
D2600	D-1	D-4	-
D2601	E-2	E-3	-
D2602	E-2	E-3	-
D2603		F-3	③
D2604		F-3	③

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 47)

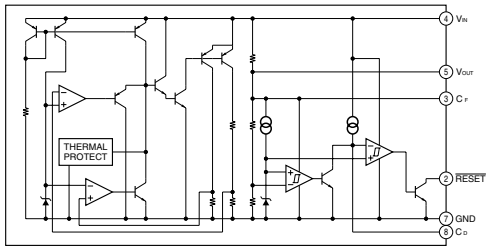
•A(1/3)BOARD WAVEFORMS

① NTSC 1.0VP-P(H)	① SECAM 1.0VP-P(V)	① PAL 1.2VP-P(H)
② PAL 1.2VP-P(H) NTSC/SECAM 0.9VP-P(H)	③ PAL 1.1VP-P(H) NTSC/SECAM 0.8VP-P(H)	④ NTSC 1.0VP-P(H)
④ SECAM 1.0VP-P(H)	④ PAL 1.3VP-P(H)	⑤ PAL 1.2VP-P(H) NTSC/SECAM 0.9VP-P(H)
⑥ PAL 1.1VP-P(H) NTSC/SECAM 0.84VP-P(H)		

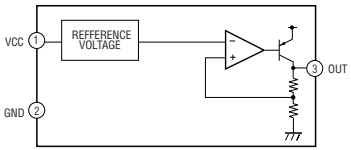
•A(2/3)BOARD WAVEFORMS

① NTSC 1.0VP-P(H)	① SECAM 1.0VP-P(H)	① PAL 1.3VP-P(H)
②	② PAL 1.1VP-P(H) NTSC/SECAM 0.84VP-P(H)	② 1.3VP-P(H)

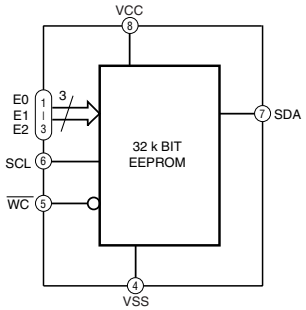
• A(1/3) BOARD IC002 : MM1482BFBE



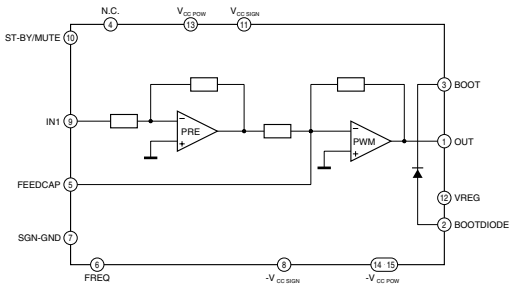
• A(1/3) BOARD IC005, 2600, 2605, 2607 : BA05FP



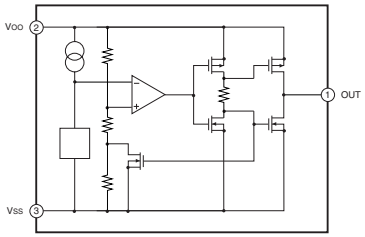
• A(1/3) BOARD IC003 : M24C32-WMN6T(A)



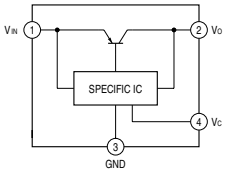
• A(3/3) BOARD IC1203, 1204 : TDA7481



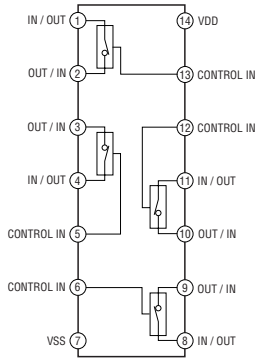
• A(2/3) BOARD IC100 : S-80743AL-A7-T1



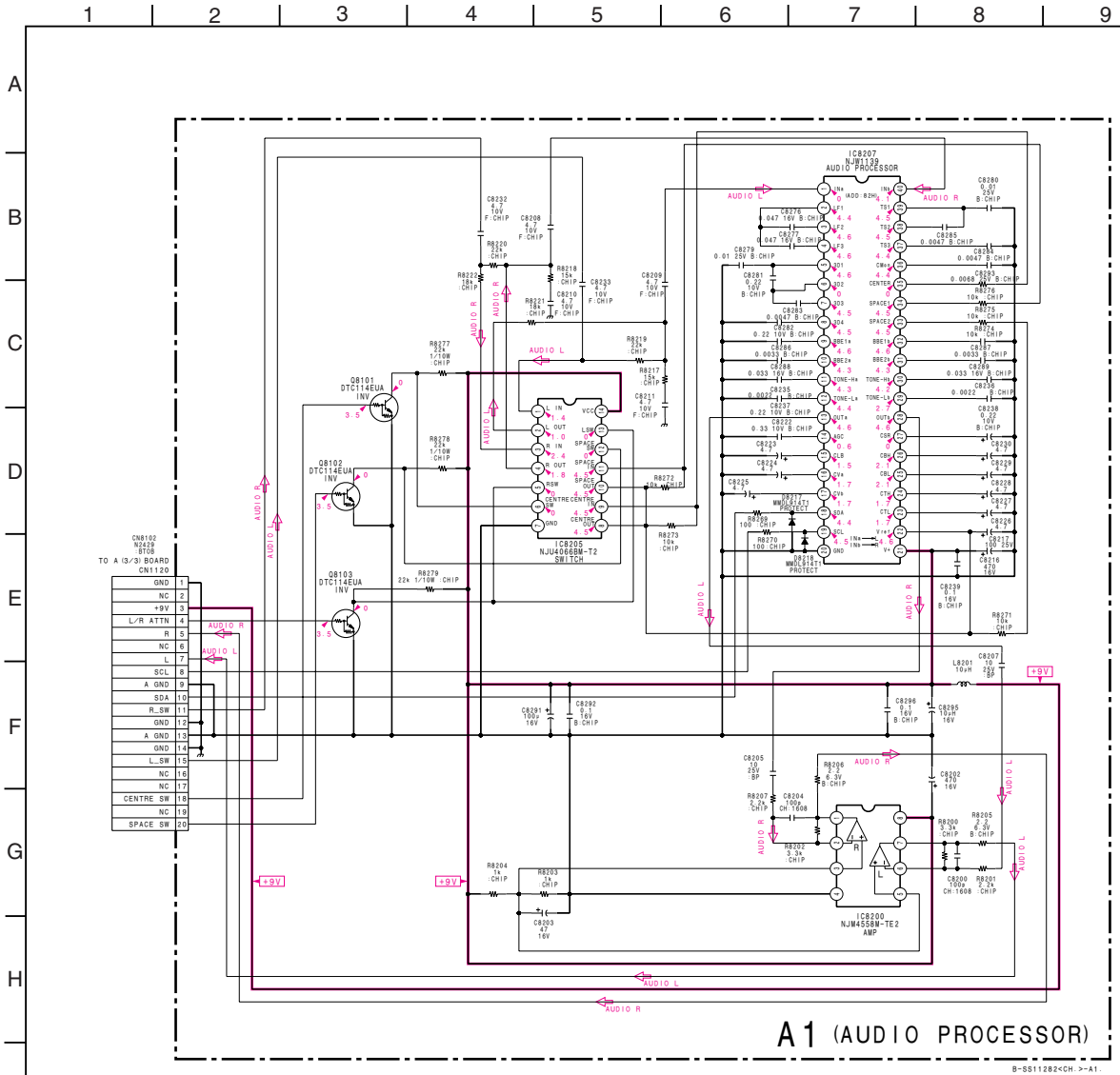
• A(2/3) BOARD IC2602 : PQ05RD1B
• A(2/3) BOARD IC2604 : PQ5EV3



• A1 BOARD IC8205 : MC14066BF

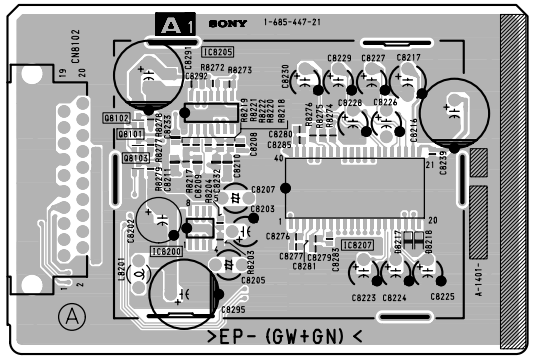


(4) Schematic Diagram of A1 Board

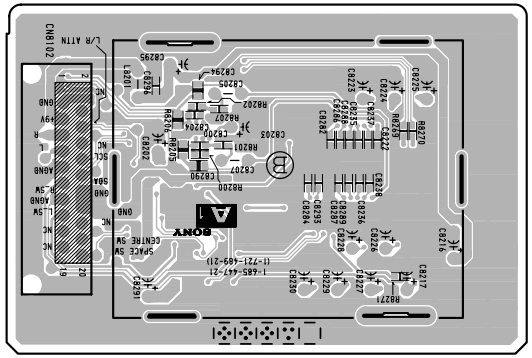


A1 [AUDIO PROCESSOR]

— A1 BOARD (COMPONENT SIDE) —



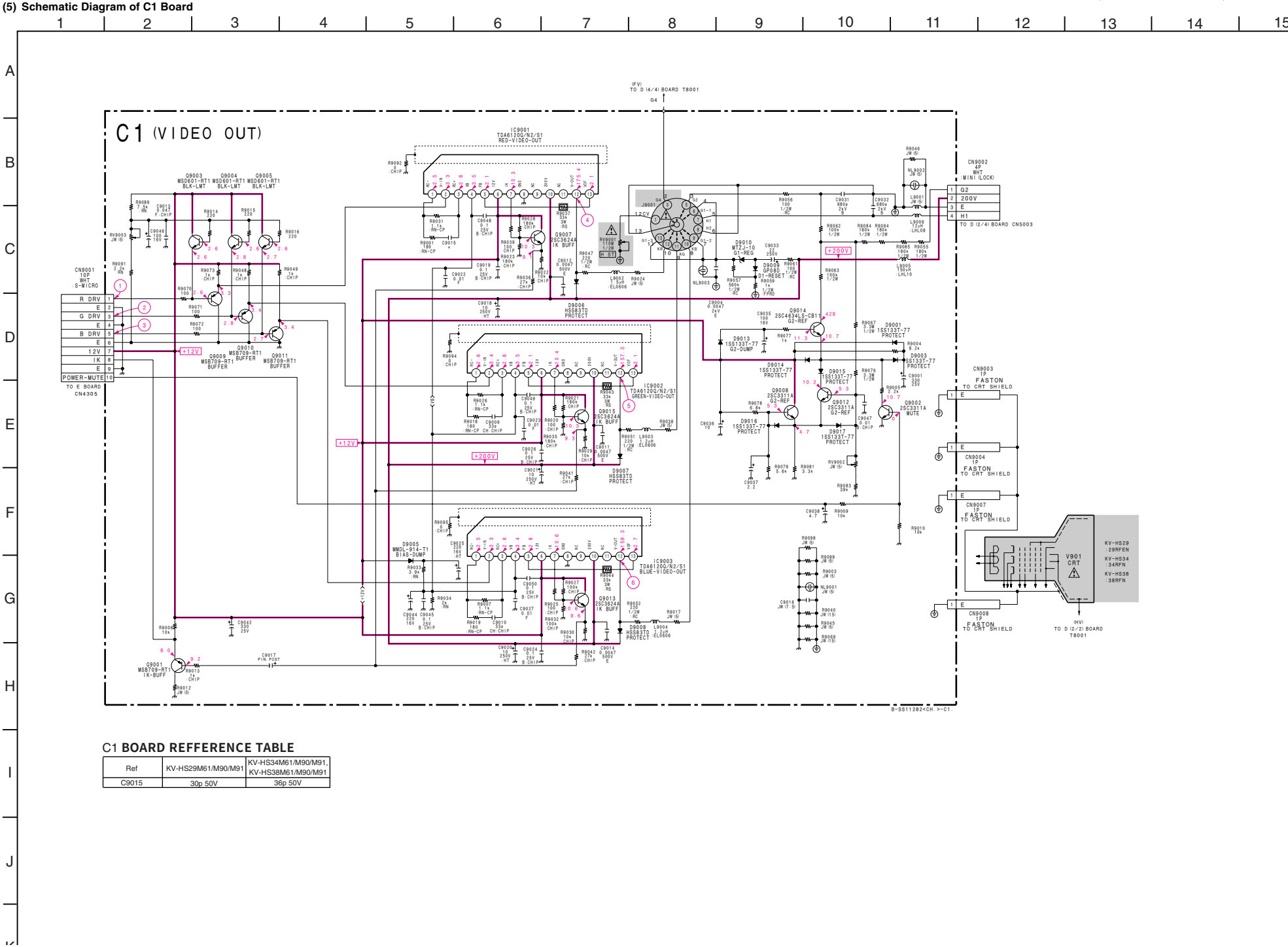
— A1 B0ARD (CODUCTOR SIDE) —



A1 BOARD
Terminal name of semiconductors in silk screen printed circuit (✻)

Ref.	✻
D8217	②
Q8101-Q8103	②
Q8218	③

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 47)



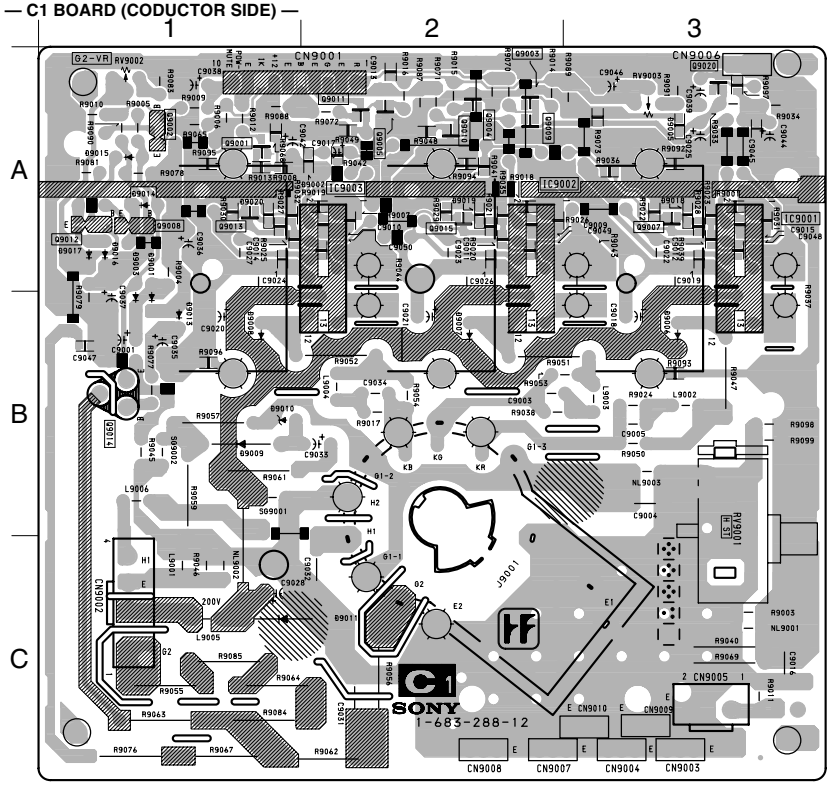
C1 **BOARD REFFERENCE TABLE**

Ref	KV-HS29M61/M90/M91	KV-HS34M61/M90/M91, KV-HS38M61/M90/M91
C9015	30p 50V	36p 50V

C1 [VIDEO OUT]

(KV-HS29)

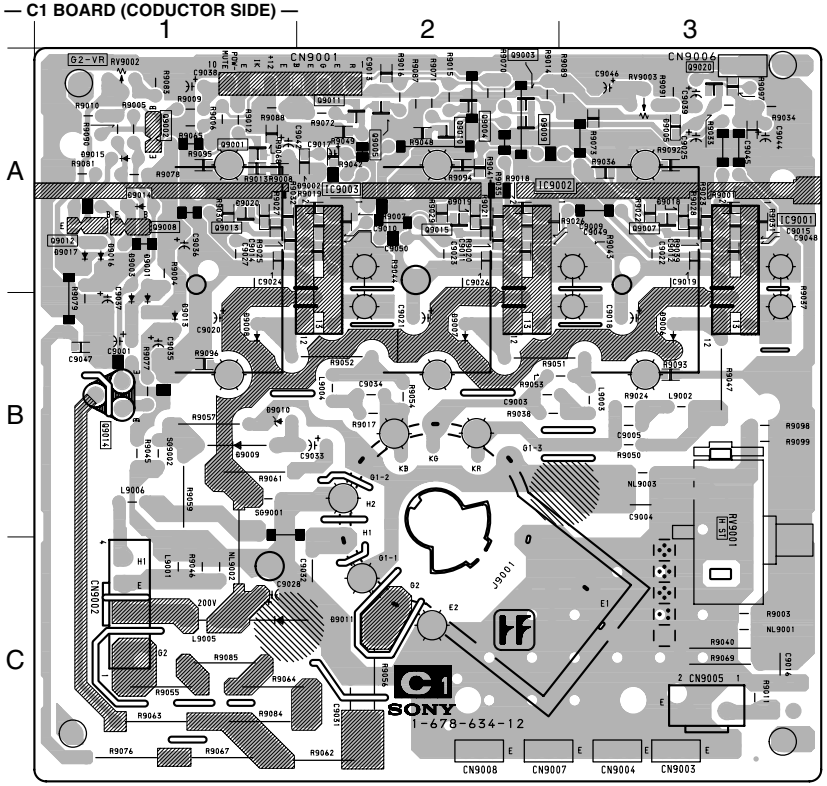
— C1 BOARD (CODUCTOR SIDE) —



C1 [VIDEO OUT]

(KV-HS34/HS38)

— C1 BOARD (CODUCTOR SIDE) —



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• C1 BOARD SEMICONDUCTOR LOCATION

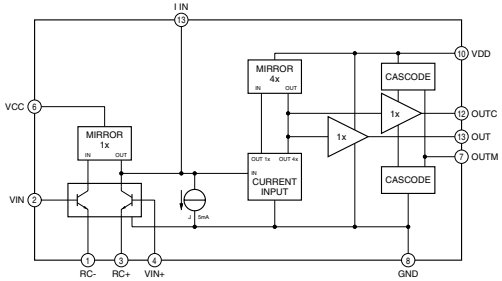
IC		TRANSISTOR			DIODE		
IC9001	A-3	Q9001	A-1	①	D9001	B-1	-
IC9002	A-2	Q9002	A-1	-	D9003	B-1	-
IC9003	A-2	Q9003	A-2	①	D9005	A-3	③
		Q9004	A-2	①	D9006	B-3	-
		Q9005	A-2	①	D9007	B-2	-
		Q9007	A-3	①	D9008	B-1	-
		Q9008	A-1	-	D9009	B-1	-
		Q9009	A-2	①	D9010	B-1	-
		Q9010	A-2	①	D9013	B-1	-
		Q9011	A-2	①	D9014	A-1	-
		Q9012	A-1	-	D9015	A-1	-
		Q9013	A-1	①	D9016	A-1	-
		Q9014	B-1	-			
		Q9015	A-2	①			

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 47)

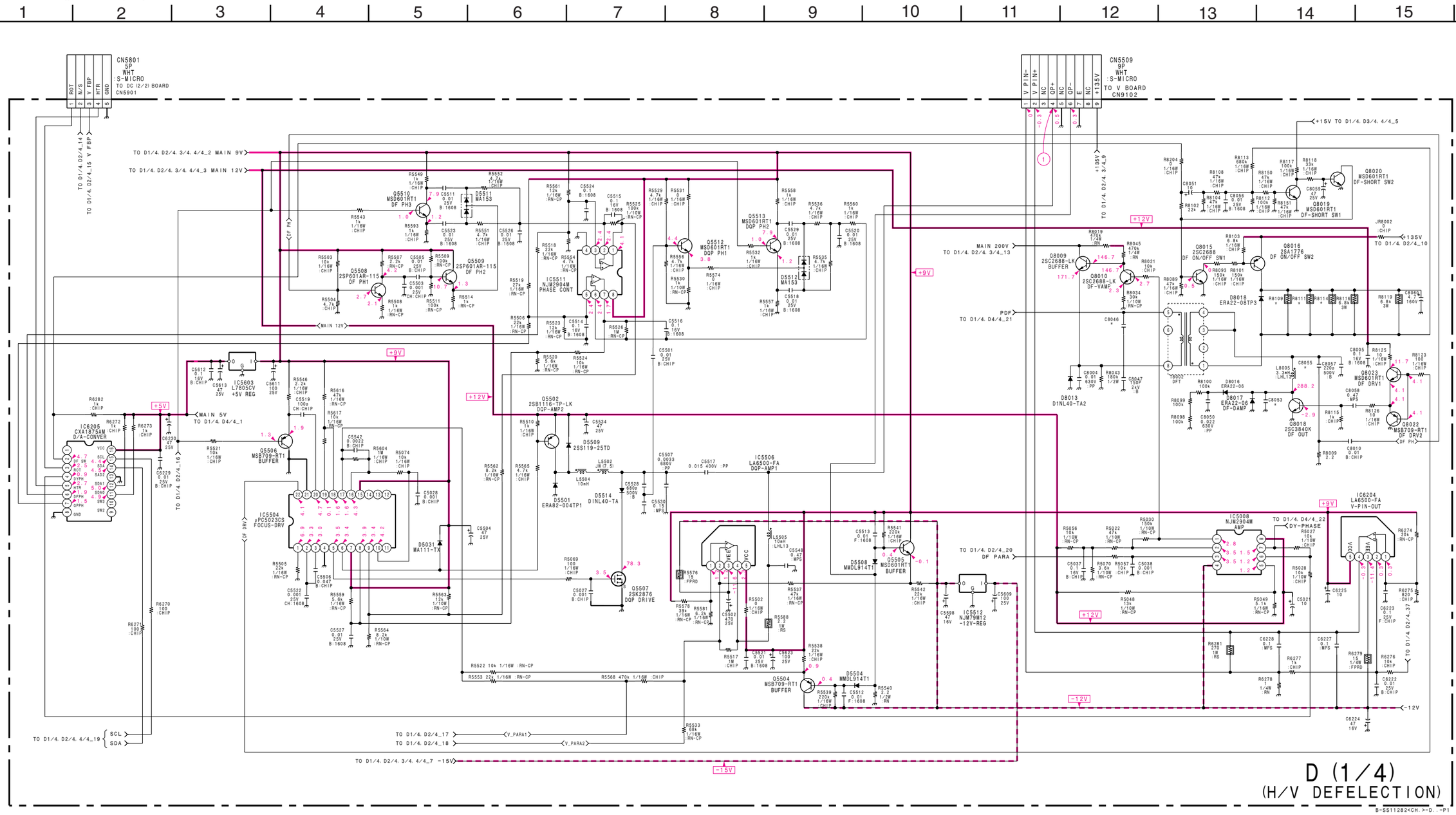
•C1 BOARD WAVEFORMS

① 2.6VP-P(H)	④ 143.0VP-P(H)
② 1.8VP-P(H)	⑤ 104.0VP-P(H)
③ 2.5VP-P(H)	⑥ 142.0VP-P(H)

• C1 BOARD IC9001, IC9002, IC9003 : TDA6120Q/N2/S1

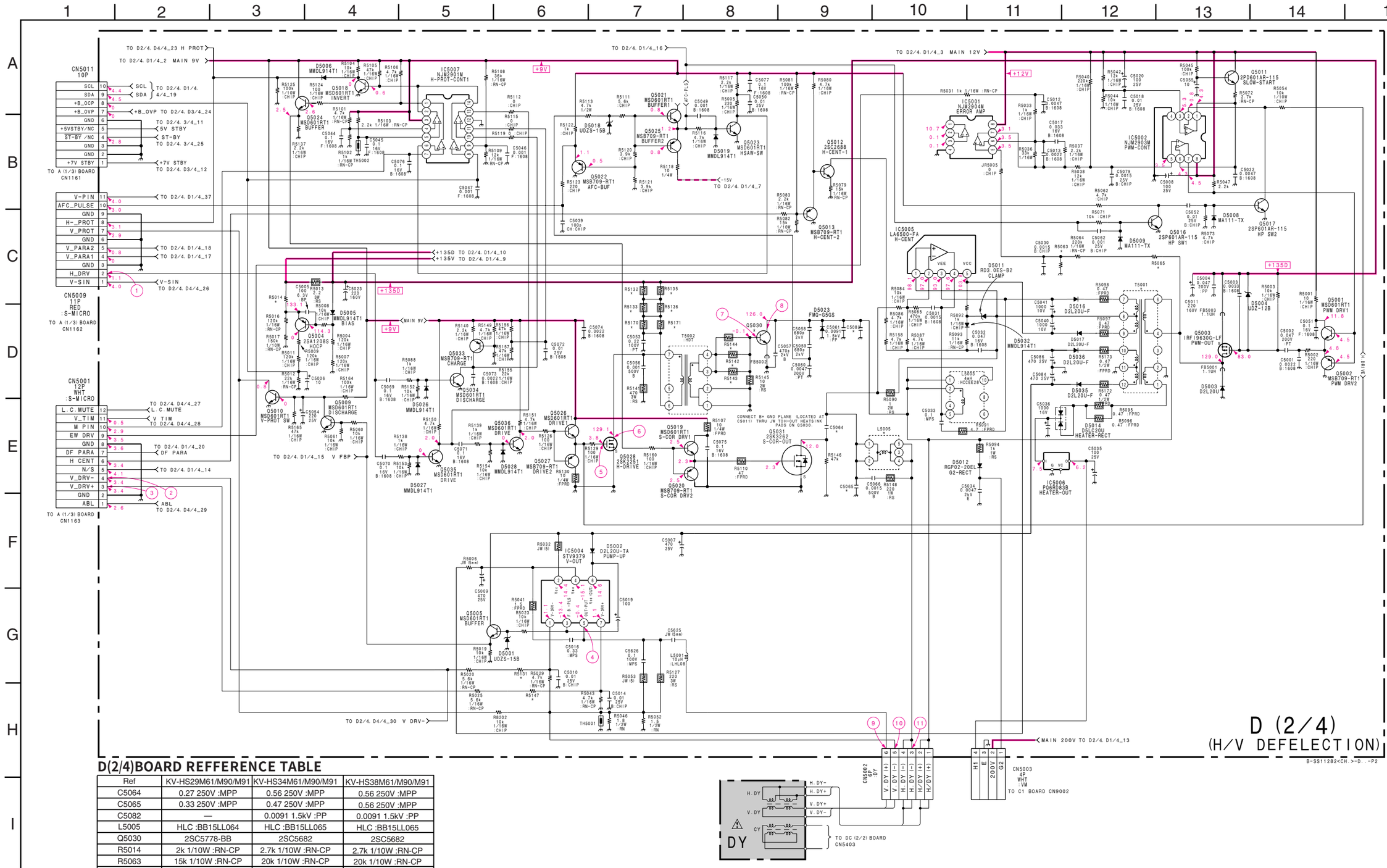


(6) Schematic Diagram of D(1/4) Board



D(1/4)BOARD REFFERENCE TABLE

Ref	KV-HS29M61/M90/M91	KV-HS34M61/M90/M91	KV-HS38M61/M90/M91
C8046	100p 2kV :B	150p 2kV :B	150p 2kV :B
C8055	0.0015 630V :PP	0.0018 630V :PP	0.0018 630V :PP
R8109	5.6k 3W :RS	8.2k 3W :RS	8.2k 3W :RS
R8111	6.8k 3W :RS	8.2k 3W :RS	8.2k 3W :RS
R8114	6.8k 3W :RS	8.2k 3W :RS	8.2k 3W :RS

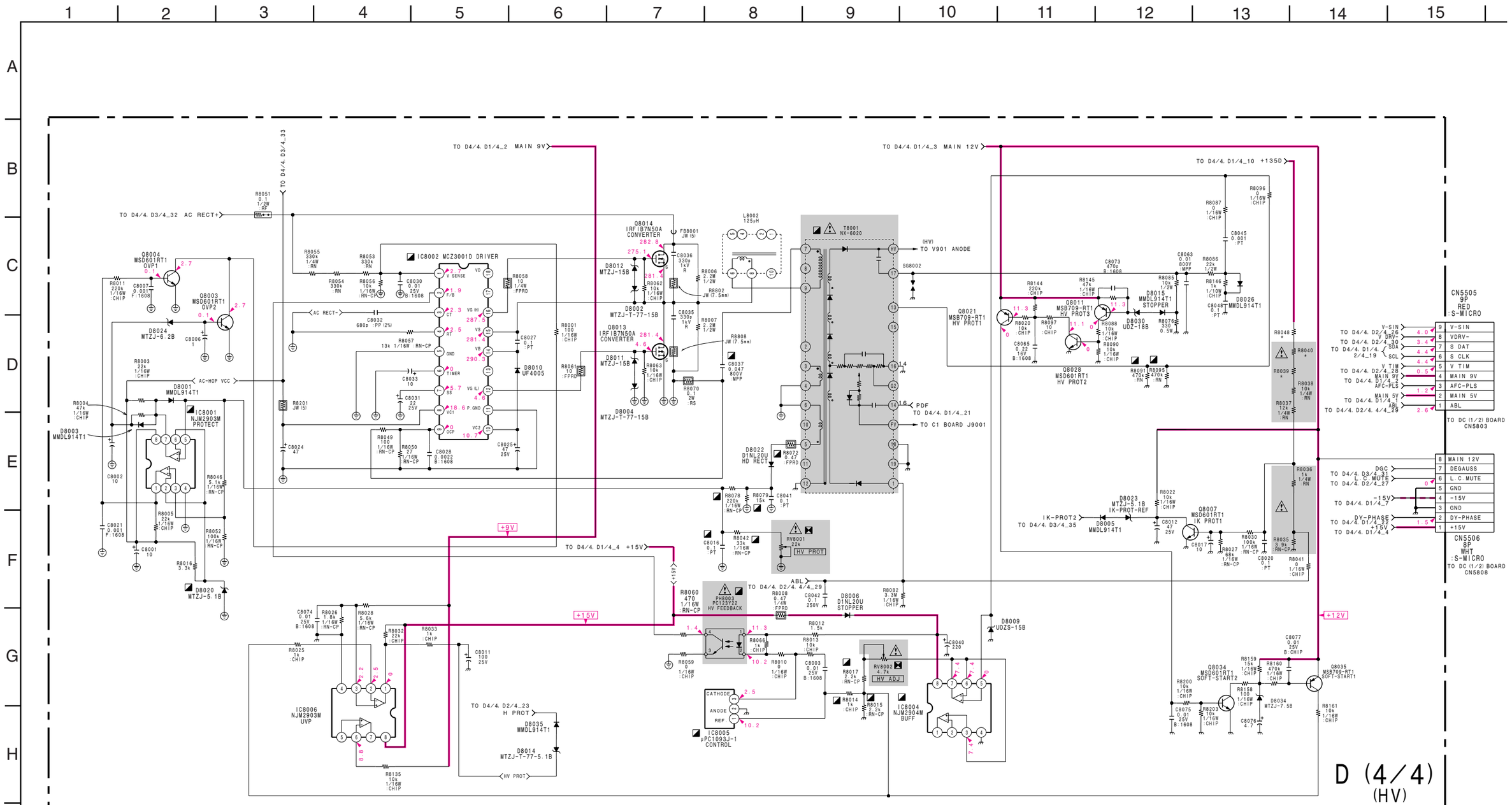


D(2/4)BOARD REFFERENCE TABLE

Ref	KV-HS29M61/M90/M91	KV-HS34M61/M90/M91	KV-HS38M61/M90/M91
C5064	0.27 250V :MPP	0.56 250V :MPP	0.56 250V :MPP
C5065	0.33 250V :MPP	0.47 250V :MPP	0.56 250V :MPP
C5082	—	0.0091 1.5kV :PP	0.0091 1.5kV :PP
L5005	HLC :BB15LL064	HLC :BB15LL065	HLC :BB15LL065
Q5030	2SC5778-BB	2SC5682	2SC5682
R5014	2k 1/10W :RN-CP	2.7k 1/10W :RN-CP	2.7k 1/10W :RN-CP
R5063	15k 1/10W :RN-CP	20k 1/10W :RN-CP	20k 1/10W :RN-CP
R5065	220k 1/10W :RN-CP	270k 1/10W :RN-CP	270k 1/10W :RN-CP
R5131	4.7k 1/10W :RN-CP	3.6k 1/10W :RN-CP	3.6k 1/10W :RN-CP
R5132	2.7k 2W :RS	1k 3W :RS	1k 3W :RS
R5133	2.7k 2W :RS	1k 3W :RS	1k 3W :RS
R5135	2.7k 2W :RS	1k 3W :RS	1k 3W :RS
R5136	2.7k 2W :RS	1k 3W :RS	1k 3W :RS
R5142	0.22 2W :RS	0.47 3W :RS	0.47 3W :RS
R5143	0.22 2W :RS	0.47 3W :RS	0.47 3W :RS
R5144	—	0.47 3W :RS	0.47 3W :RS
R5147	4.7k 1/10W :RN-CP	3.6k 1/10W :RN-CP	3.6k 1/10W :RN-CP
R5170	2.7k 2W :RS	1k 3W :RS	820k 3W :RS
R5171	2.7k 2W :RS	1k 3W :RS	1k 3W :RS
T5001	HOT :ER28TP057	HOT :ER28TP046	HOT :ER28TP057

D(3/4)BOARD REFFERENCE TABLE

Ref	KV-HS29M90, HS34M90, HS38M61/M90/M91	KV-HS29M61/M91, HS34M61/M91
C6109	—	470
C6621	—	1500 250V
C6622	—	1500 250V
C6629	560 450V	—
C6680	—	0.47 450V
D6108	—	D1NL20U
D6604	—	RD22EB2
D6612	—	ERC04-06SE
D6613	—	ERC04-06SE
D6653	—	ERC04-06S
IC6608	—	SUR-MODULE
JW6603	10MM	—
JW6604	10MM	—
JW6607	5MM	—
R6636	—	100 :FPRD
R6637	—	100 1/2W :FPRD
R6641	—	470k 1/2W
R6642	—	470k 1/2W
R6698	—	2.2k 1/10W :CHIP
RY6602	—	DJ1201
VD6601	—	ENE471D-20A

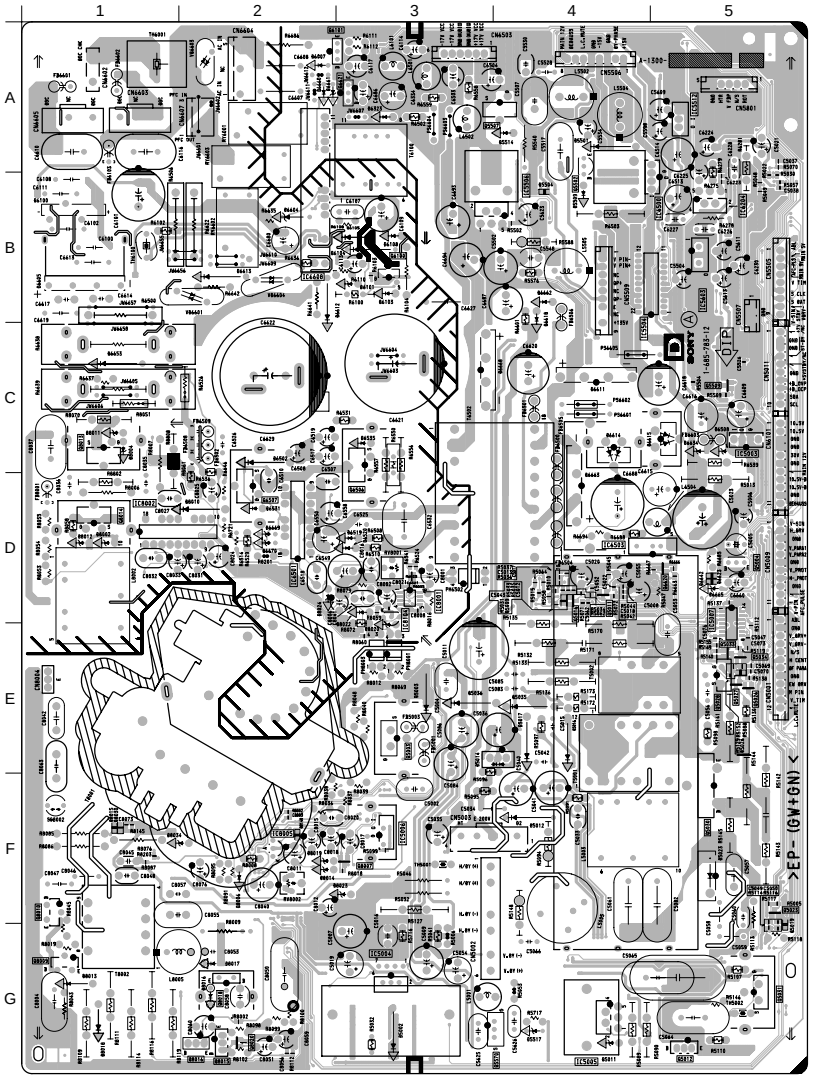


D(4/4)BOARD REFFERENCE TABLE

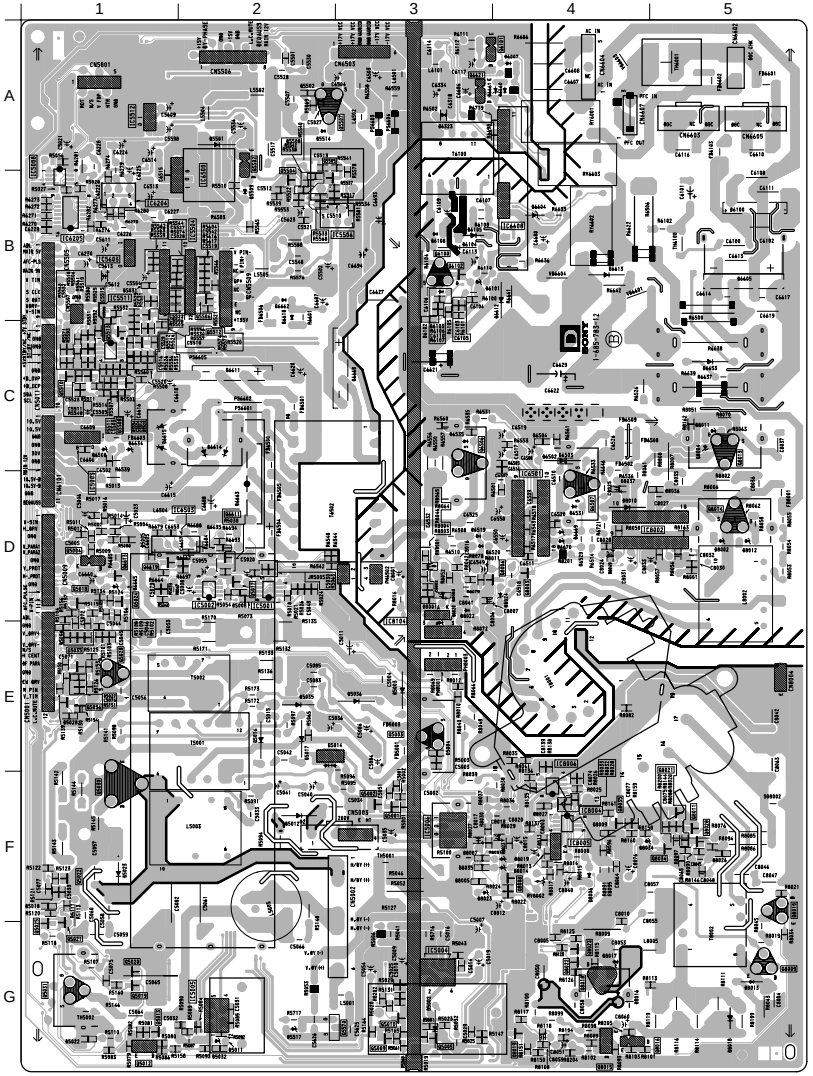
Ref	KV-HS29M61/M90/M91	KV-HS34M61/M90/M91	KV-HS38M61/M90/M91
R8039	12k 1/4W :RN	10k :RN	10k :RN
R8040	13k 1/4W :RN	12k 1/4W :RN	12k 1/4W :RN
R8048	15k 1/4W :RN	12k 1/4W :RN	12k 1/4W :RN

D [HV, H/V DEF., POWER SUPPLY]

— D BOARD (COMPONENT SIDE) —



— D B0ARD (CODUCTOR SIDE)—



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 47)

• D BOARD SEMICONDUCTOR LOCATION

IC

	(Component Side)	(Conductor Side)
IC5001		D-2
IC5002		D-2
IC5003	C-5	C-1
IC5004	G-3	G-3
IC5005	G-4	G-2
IC5006	F-3	F-3
IC5007	D-5	
IC5008		B-1
IC5504	B-4	B-1
IC5506	B-3	B-3
IC5511		C-1
IC5512	A-5	A-1
IC5603	B-5	B-1
IC6204	B-5	B-1
IC6205		B-1
IC6500	B-5	B-2
IC6501	D-2	D-4
IC6503	D-5	D-1
IC8001	D-3	
IC8002	D-1	D-5
IC8004		F-4
IC8005	F-2	F-4
IC8006		F-4

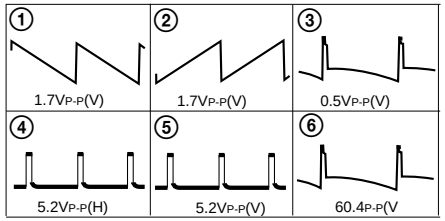
TRANSIATER

	(Component Side)	(Conductor Side)	∗
Q5001		F-3	①
Q5002		F-3	①
Q5003	E-3	E-3	-
Q5004	D-5	D-1	-
Q5005		G-3	②
Q5009		G-3	②
Q5010		G-3	②
Q5011	D-4		①
Q5012	G-5G-1	-	
Q5013	G-1		②
Q5016	D-4		①
Q5017		D-2	②
Q5018		D-1	②
Q5019		G-1	②
Q5020		G-1	②
Q5021		G-1	②
Q5022		F-1	②
Q5023	F-5		②
Q5024		D-1	②
Q5025		G-1	②
Q5026	E-5		①
Q5027	E-5		①
Q5028	E-5	E-1	-
Q5030	F-5	F-1	-
Q5031	G-5	G-1	-
Q5033	E-5		①
Q5034	E-5		①
Q5035		E-1	②
Q5036		E-1	②
Q5502	A-4	A-2	-
Q5504		B-2	②
Q5505		B-2	②
Q5506		B-2	②
Q5507	A-4	A-2	-
Q5508		C-1	②
Q5509	C-5		①
Q5510		C-1	②
Q5512		B-1	②
Q5513		C-1	②
Q6100	B-3	B-3	-
Q6101	A-2	A-3	-
Q6102		B-3	②
Q6506	C-3	C-3	-
Q6507	D-2	D-4	-
Q6611		D-2	②
Q6613		D-1	②
Q6619		D-1	②
Q6620	D-5		①
Q6621	A-3	A-3	-
Q8003		D-4	②
Q8004		D-3	②
Q8007	F-3		①
Q8009	G-1	G-5	-
Q8010	F-1	F-5	-
Q8011		F-5	②
Q8013	C-1	C-5	-
Q8014	D-1	D-5	-
Q8015	G-2	G-4	-
Q8016	G-2	G-4	-
Q8018	G-2	G-4	-
Q8019		G-4	②
Q8020	G-2		①
Q8021		F-5	②
Q8022		G-4	②
Q8023		G-4	②
Q8028		F-5	②
Q8034		F-5	②
Q8035		F-4	②

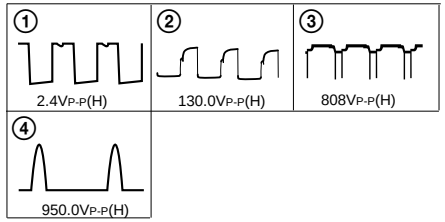
DIODE

	(Component Side)	(Conductor Side)	∗
D5001		G-3	③
D5002	G-3	G-3	-
D5003	E-3	E-3	-
D5004		E-3	③
D5005		D-1	③
D5006		E-1	③
D5008		D-2	③
D5009		D-4	③
D5011	G-4	G-2	-
D5012	F-4	F-2	-
D5014	E-3	E-2	-
D5016	E-4	E-2	-
D5017	E-4	E-2	-
D5018		F-1	③
D5019	F-5		③
D5023	F-5	F-1	-
D5026	E-5		③
D5027	E1		③
D5028		E-1	③
D5031		B-1	③
D5032		G-2	③
D5035	E-4	E-2	-
D5036	E-3	E-3	-
D5501	A-4	A-2	-
D5504	B-4		③
D5508		B-2	③
D5509	B-4	B-2	-
D5511		C-2	⑥
D5512		C-1	⑥
D5514	A-4	A-2	-
D6007	A-2	A-4	-
D6100	B-1	B-5	-
D6101	B-3	B-3	-
D6102		B-3	③
D6103	B-3	B-3	-
D6104	B-3	B-3	-
D6105	B-3	B-3	-
D6323	A-3	A-3	-
D6502	C-2	C-4	-
D6508	C-5	C-1	-
D6519	D-3	D-3	-
D6520	D-3	D-3	-
D6531	D-2	D-4	-
D6535	C-3	C-3	-
D6605	B-1	B-5	-
D6611	C-4	C-2	-
D6614	C-4	C-2	-
D6615	C-5	C-1	-
D6623	D-5		③
D6635		D-2	③
D6642	D-5		③
D6660	A-2	A-4	-
D6661	A-2	A-4	-
D6662	B-4	B-2	-
D6663	D-4	D-2	-
D6668	C-3	C-3	-
D8001		D-3	③
D8002	D-1	D-5	-
D8003	D-3	D-3	③
D8004	C-1	C-5	-
D8005		F-3	③
D8006	F-2	F-4	-
D8009		F-4	③
D8010	D-2	D-4	-
D8011	C-1	C-5	-
D8012	D-1	D-5	-
D8013	G-1	G-5	-
D8014	F-2	F-4	-
D8015	F-1		③
D8016	F-2	F-4	-
D8017	G-2	G-4	-
D8018	G-1	G-5	-
D8020	E-3	E-3	-
D8022	D-3	D-3	-
D8023	F-2	F-3	-
D8024	D-2	D-4	-
D8026		F-5	③
D8030	F-1		③
D8034	F-2	F-4	-
D8035		F-3	③

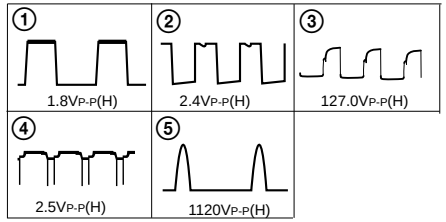
•D(1/3) BOARD WAVEFORMS



•D(2/3) BOARD WAVEFORMS

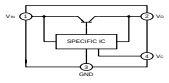


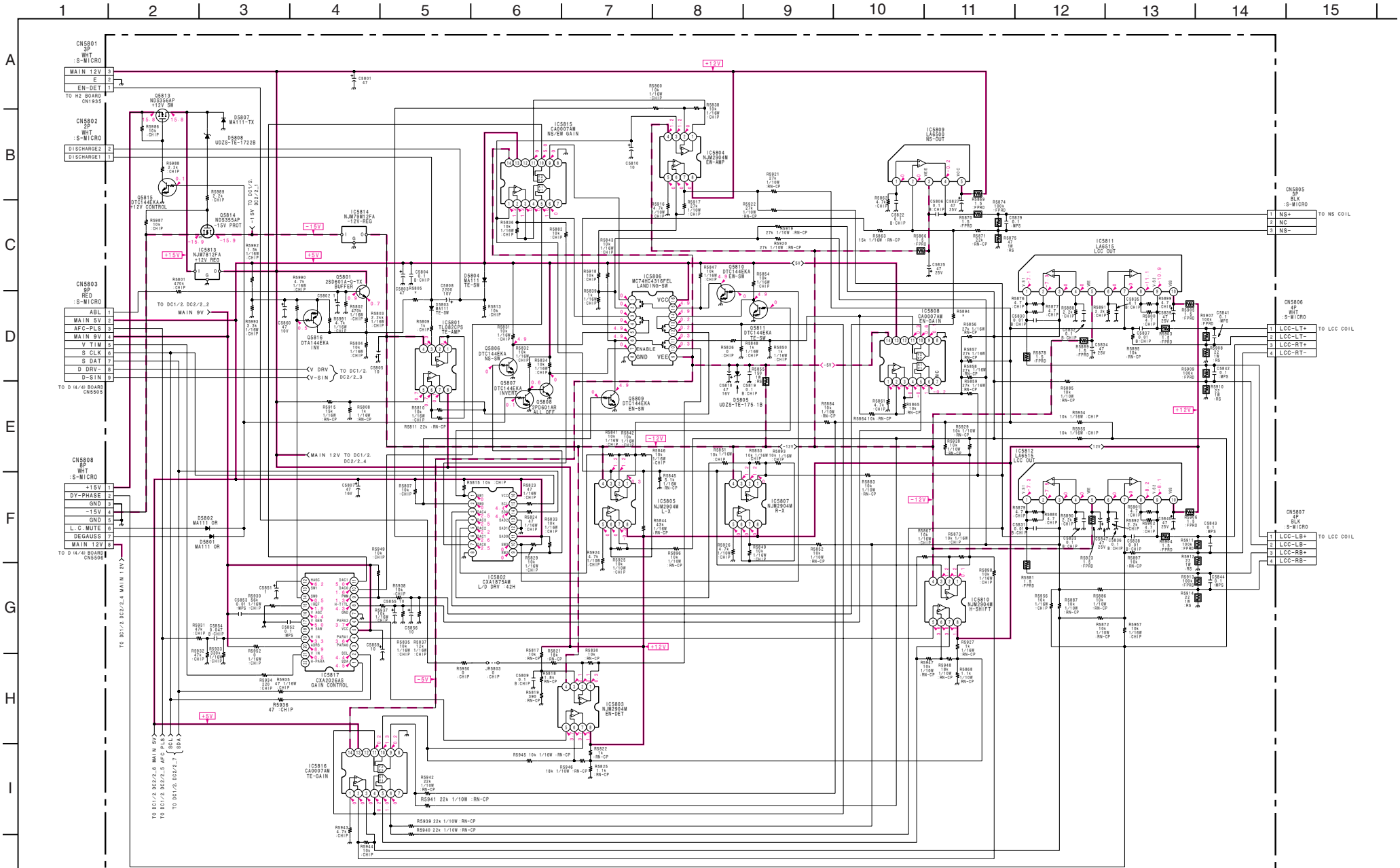
•D(3/3) BOARD WAVEFORMS



• D(1/3) BOARD IC8010 : PQ05RD1B

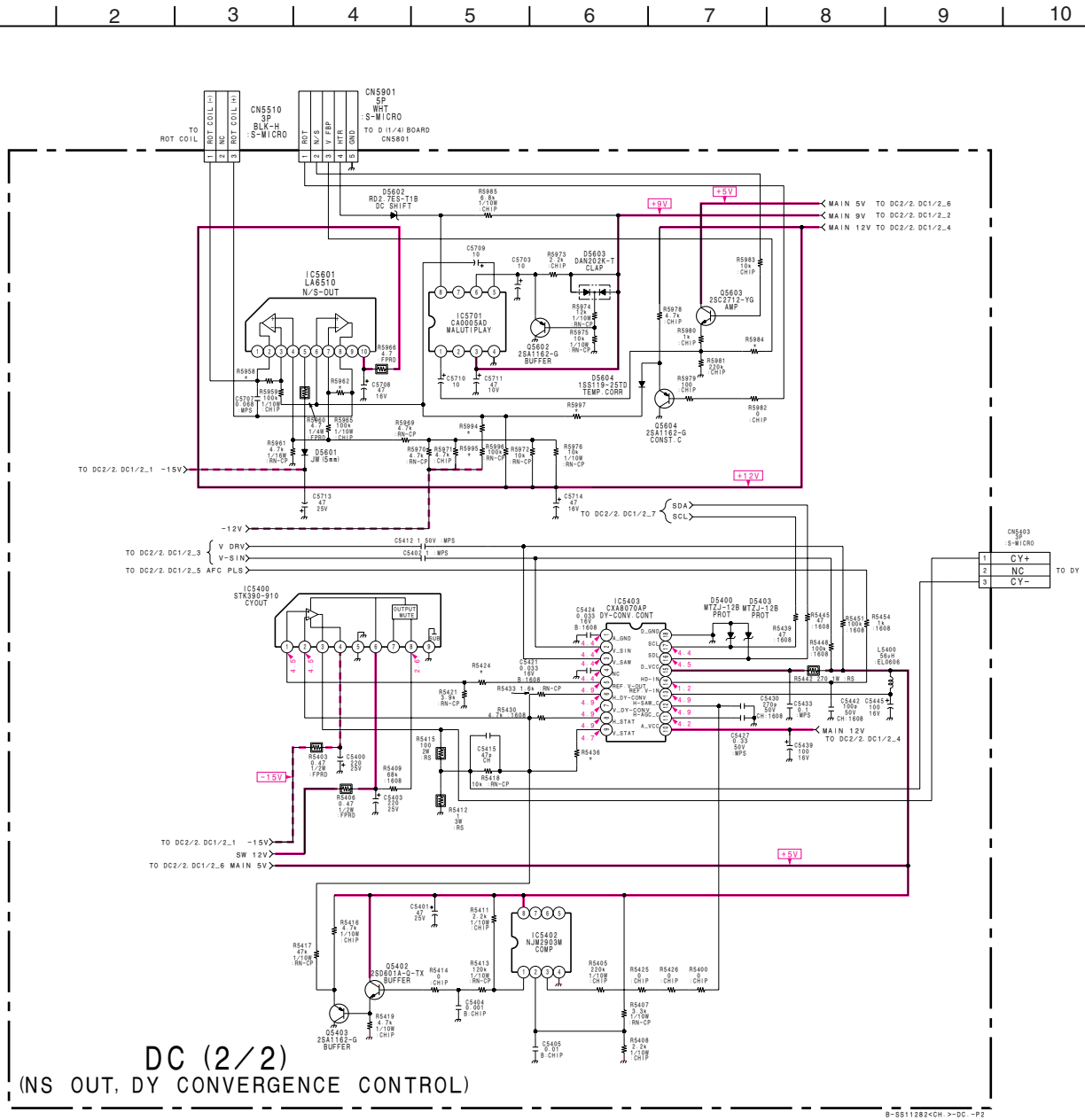
PQ05RD1B





DC(1/2)**BOARD REFFERENCE TABLE**

Ref	KV-HS29M61/M90/M91	KV-HS34M61/M90/M91	KV-HS38M61/M90/M91
R5805	470k 1/10W	330k 1/10W	470k 1/10W
R5894	47k 1/10W	47k 1/10W	33k 1/10W

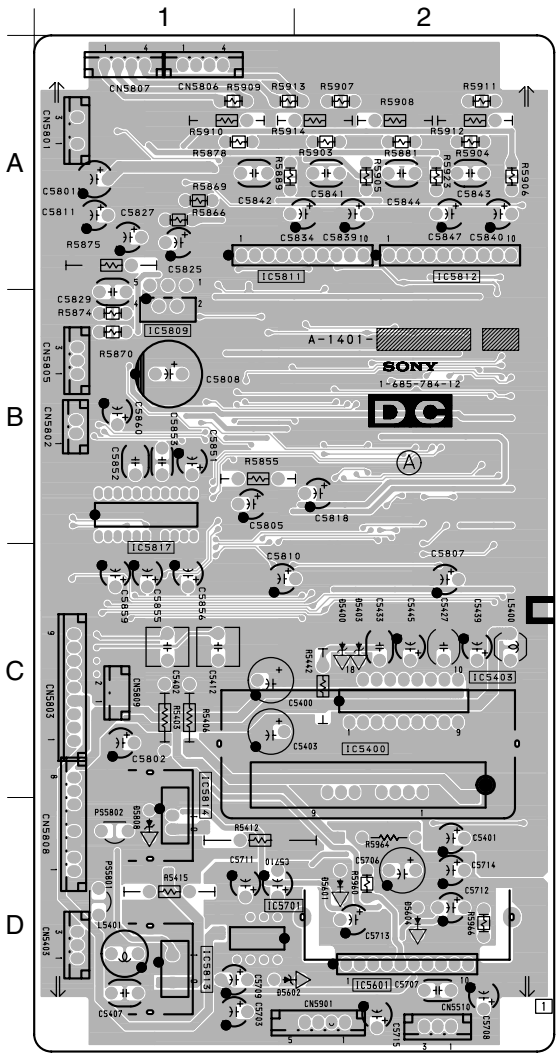


DC(2/2)**BOARD REFFERENCE TABLE**

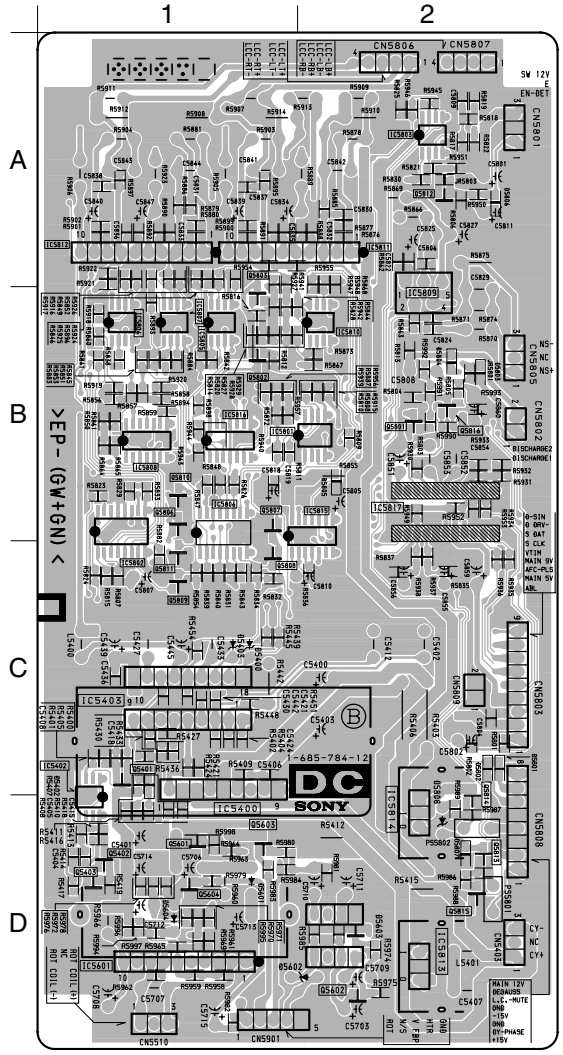
Ref	KV-HS29M61/M90/M91	KV-HS34M61/M90/M91	KV-HS38M61/M90/M91
R5424	390 1/10W	430 1/10W	430 1/10W
R5436	10k 1/10W	22k 1/10W	22k 1/10W
R5958	470k 1/10W	470k 1/10W	390k 1/10W
R5962	470k 1/10W	470k 1/10W	390k 1/10W
R5984	33k 1/10W	33k 1/10W	22k 1/10W
R5994	18k 1/10W	10k 1/10W	27k 1/10W
R5995	8.2k 1/10W	10k 1/10W	2.7k 1/10W
R5997	18k 1/10W	12k 1/10W	22k 1/10W

DC [LCC OUT, NS OUT, DY CONV. CONTROL]

— DC BOARD (COMPONENT SIDE) —



— DC B0ARD (CODUCTOR SIDE) —



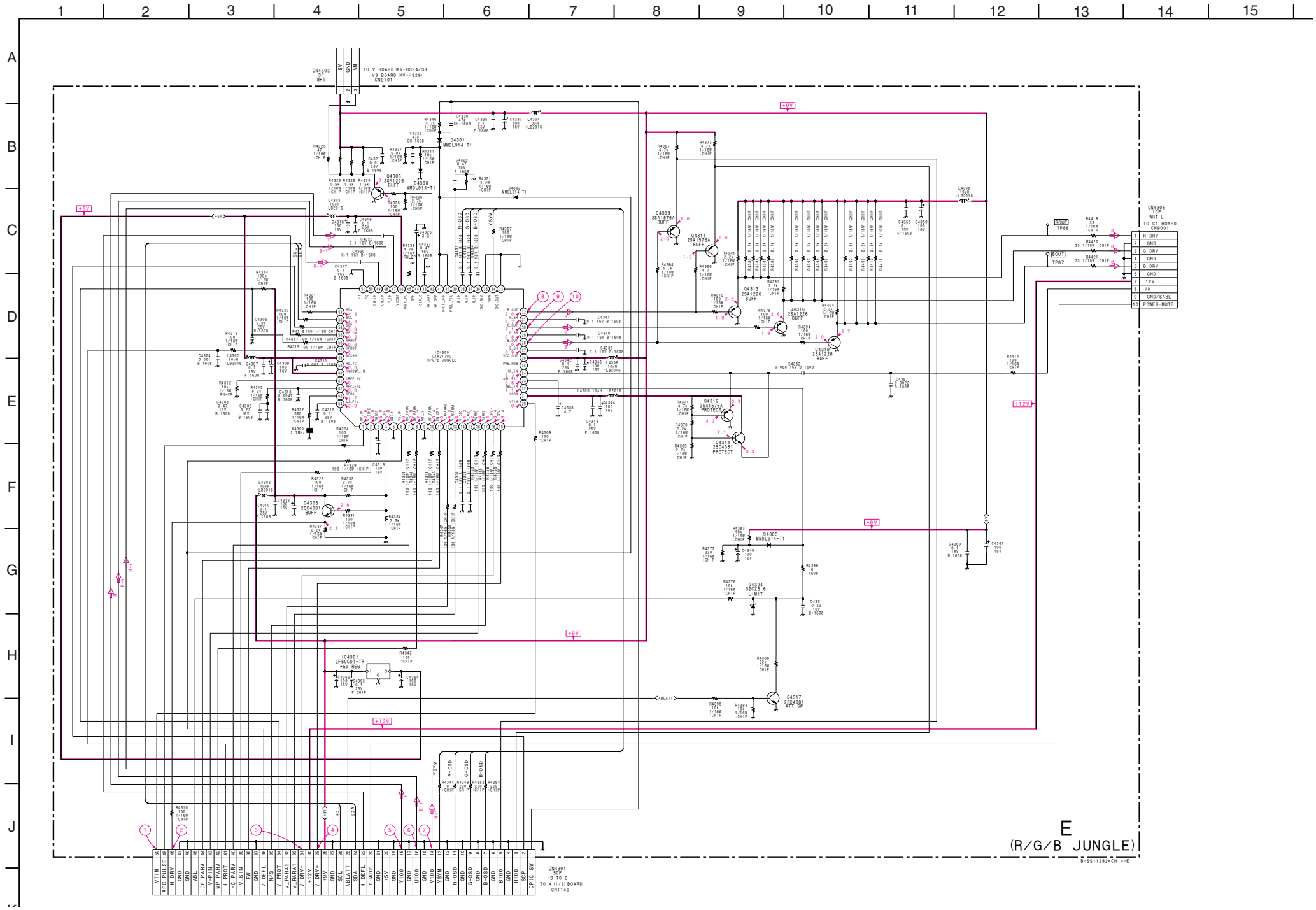
• DC BOARD SEMICONDUCTOR LOCATION

IC		
IC5400	C-2	C-1
IC5402		D-1
IC5403	C-2	C-1
IC5601	D-2	D-1
IC5701	D-1	
IC5801		B-2
IC5802		B-1
IC5803		A-2
IC5804		B-1
IC5805		B-1
IC5806		B-1
IC5807		B-1
IC5808		B-1
IC5809	B-1	B-2
IC5810		B-2
IC5811	A-2	A-1
IC5812	A-2	A-1
IC5813	D-1	D-2
IC5814	D-1	D-2
IC5815		B-2
IC5816		B-1
IC5817	B-1	B-2

TRANSISTOR			
	(Component Side)	(Conductor Side)	*
Q5402		D-1	①
Q5403		D-1	①
Q5602		D-2	①
Q5603		D-1	①
Q5604		D-1	①
Q5801		B-2	①
Q5806		B-1	①
Q5807		B-1	①
Q5808		C-1	①
Q5809		C-1	①
Q5810		B-1	①
Q5811		C-1	①
Q5813		D-2	⑭
Q5814		D-2	⑭
Q5815		D-2	①
Q5816		B-2	①

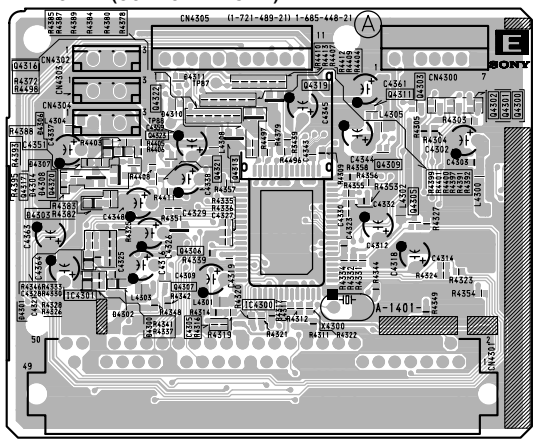
DIODE			
	(Component Side)	(Conductor Side)	*
D5400	C-2	C-1	-
D5403	C-2	C-1	-
D5601	D-2	D-1	-
D5602	D-1	D-2	-
D5603		D-2	⑧
D5604	D-2	D-1	-
D5801		C-2	③
D5802		C-2	③
D5803		B-2	③
D5804		B-2	③
D5805		B-2	③
D5807		D-2	③
D5808	D-1	D-2	-

✻: Refer to Terminal name of semiconductor s in silk screen printed cir cuit (see pa ge 47)

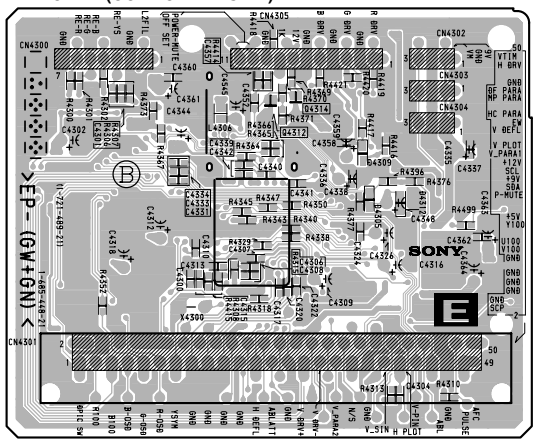

E
(R/G/B JUNGLE)

E [R/G/B JUNGLE]

— E BOARD (COMPONENT SIDE) —



— E BOARD (COMPONENT SIDE) —



•E BOARD WAVEFORMS

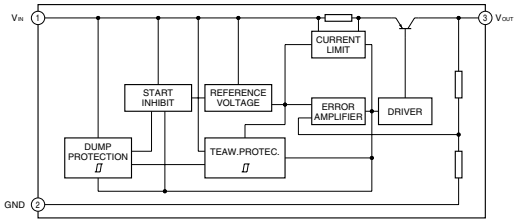
① 4.5VP-P(H)	② 3.6VP-P(V)	③ 1.7VP-P(V)
④ 1.7VP-P(V)	⑤ NTSC 0.5VP-P(H)	⑤ SECAM 0.5VP-P(H)
⑤ PAL 0.7VP-P(H)	⑥ PAL 0.6VP-P(H) NTSC/SECAM 0.4VP-P(H)	⑦ PAL 0.6VP-P(H) NTSC/SECAM 0.4VP-P(H)
⑧ 2.0VP-P(H)	⑨ 2.0VP-P(H)	⑩ 2.0VP-P(H)

• E BOARD SEMICONDUCTOR LOCATION

Ref.	✻
Q4300-Q4303, Q4305-Q4307, Q4309, Q4311, Q4313, Q4316, Q4317, Q4319	②
D4300-D4302, D4304, D4305, D4312	③

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 47)

• E BOARD IC4301 : LF50CDT-TR

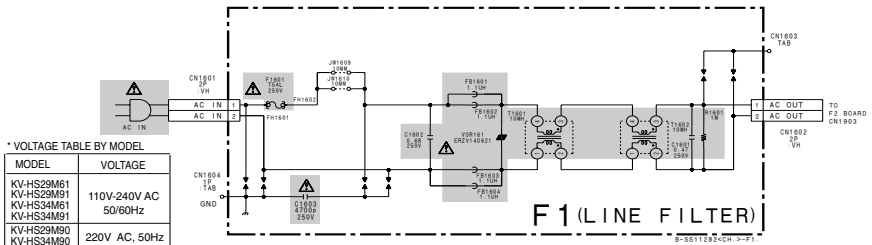


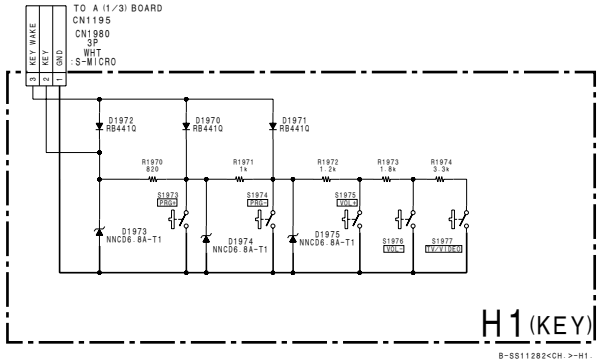
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

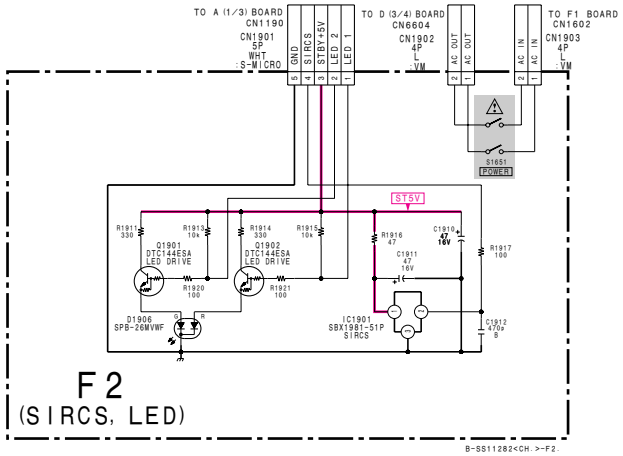
A B C D E F G H I J K

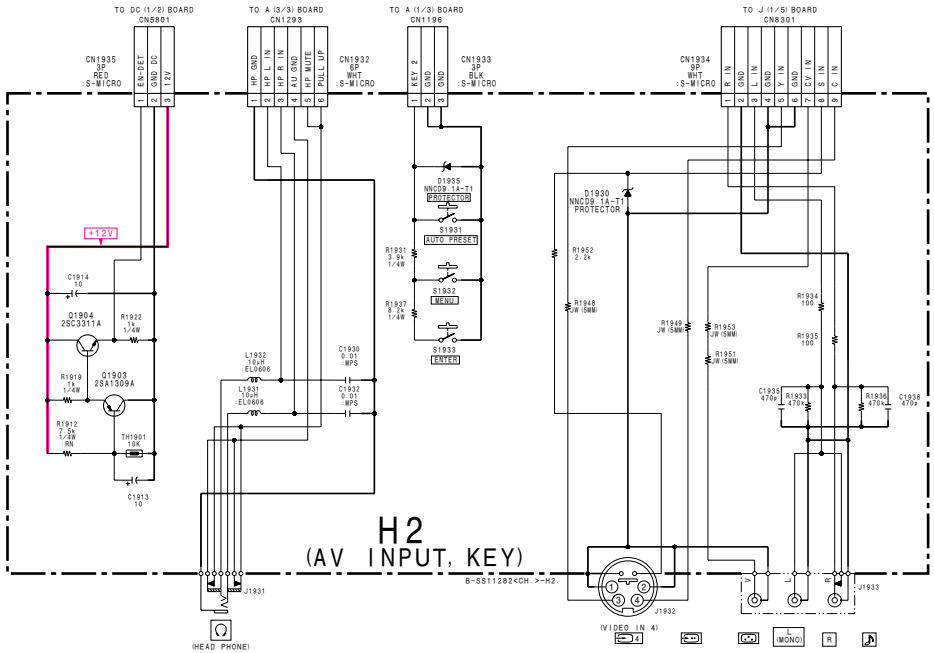
* VOLTAGE TABLE BY MODEL

MODEL	VOLTAGE
KV-HS29M61 KV-HS29M91 KV-HS34M61 KV-HS34M91	110V-240V AC 50/60Hz
KV-HS29M90 KV-HS34M90	220V AC, 50Hz
KV-HS38M61 KV-HS38M90 KV-HS38M91	220V-240V AC 50/60Hz



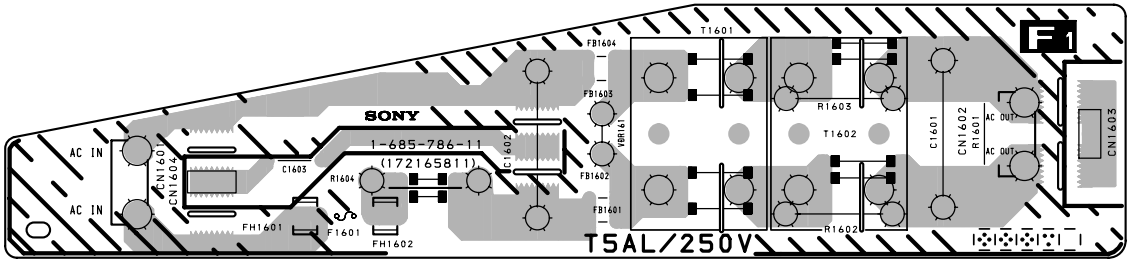






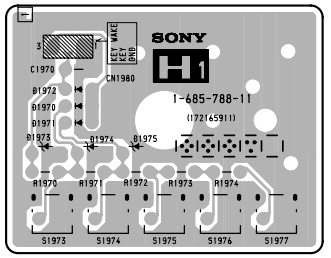
F1 [LINE FILTER]

— F1 B0ARD (CODUCTOR SIDE)—



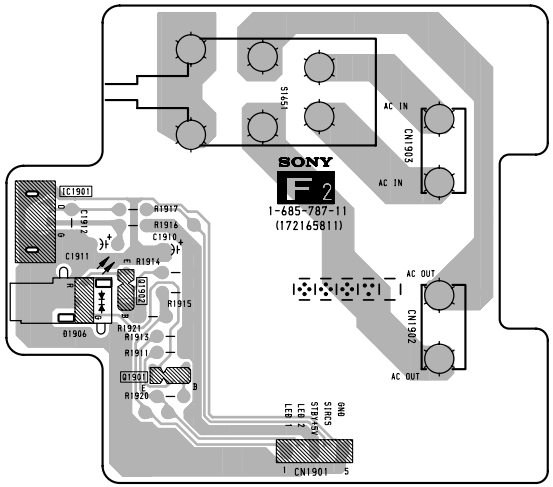
H1 [KEY]

— H1 BOARD (CODUCTOR SIDE) —



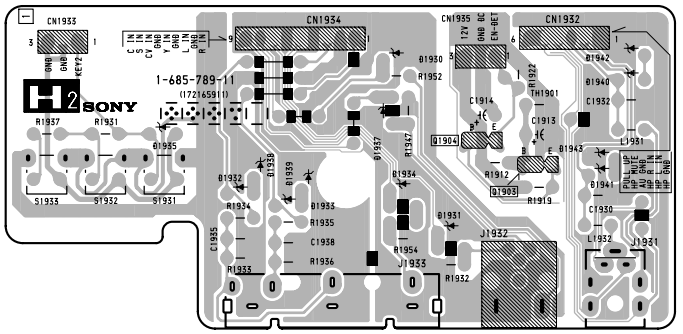
F2 [SIRCS, LED]

— F2 BOARD (CODUCTOR SIDE) —

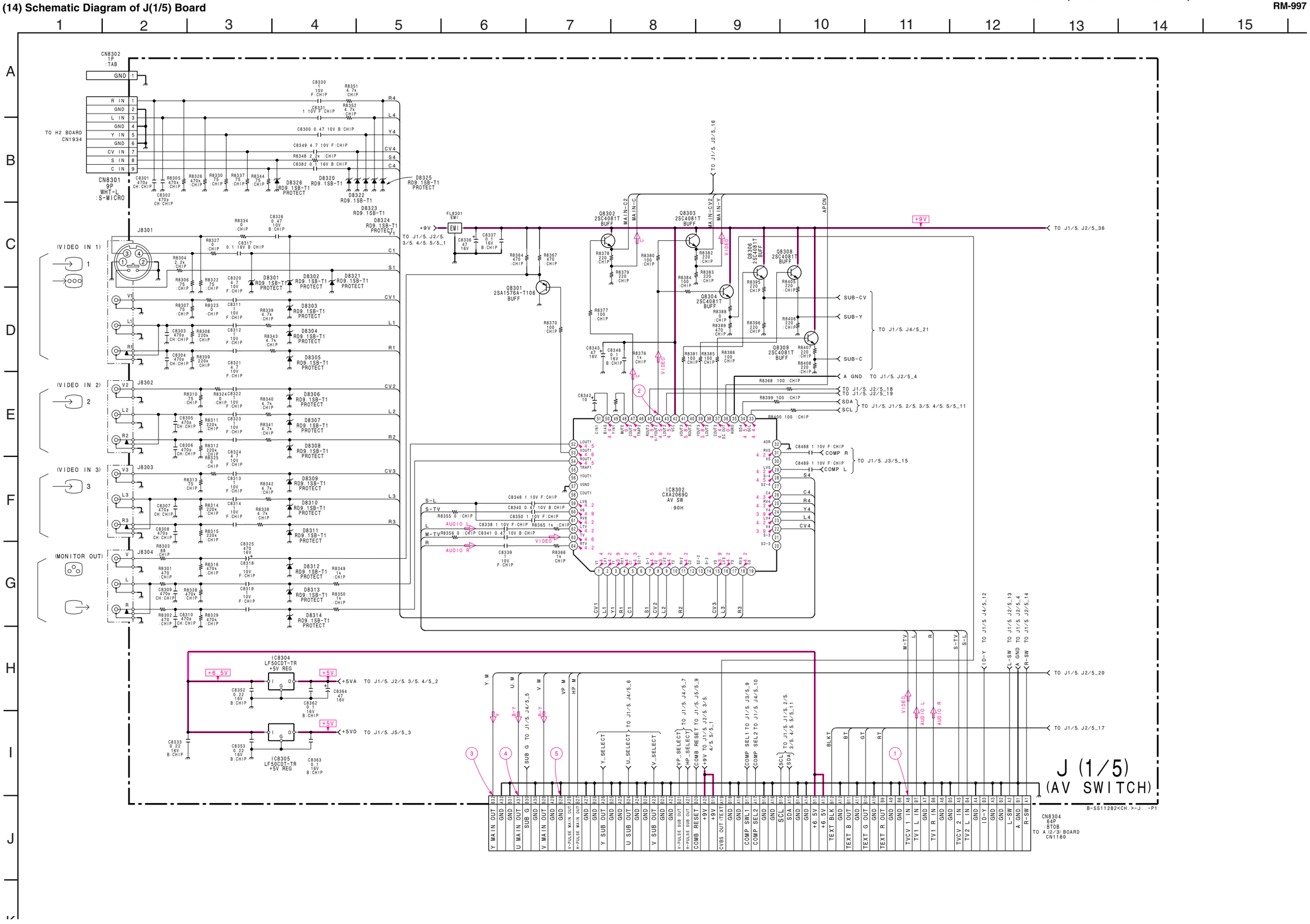


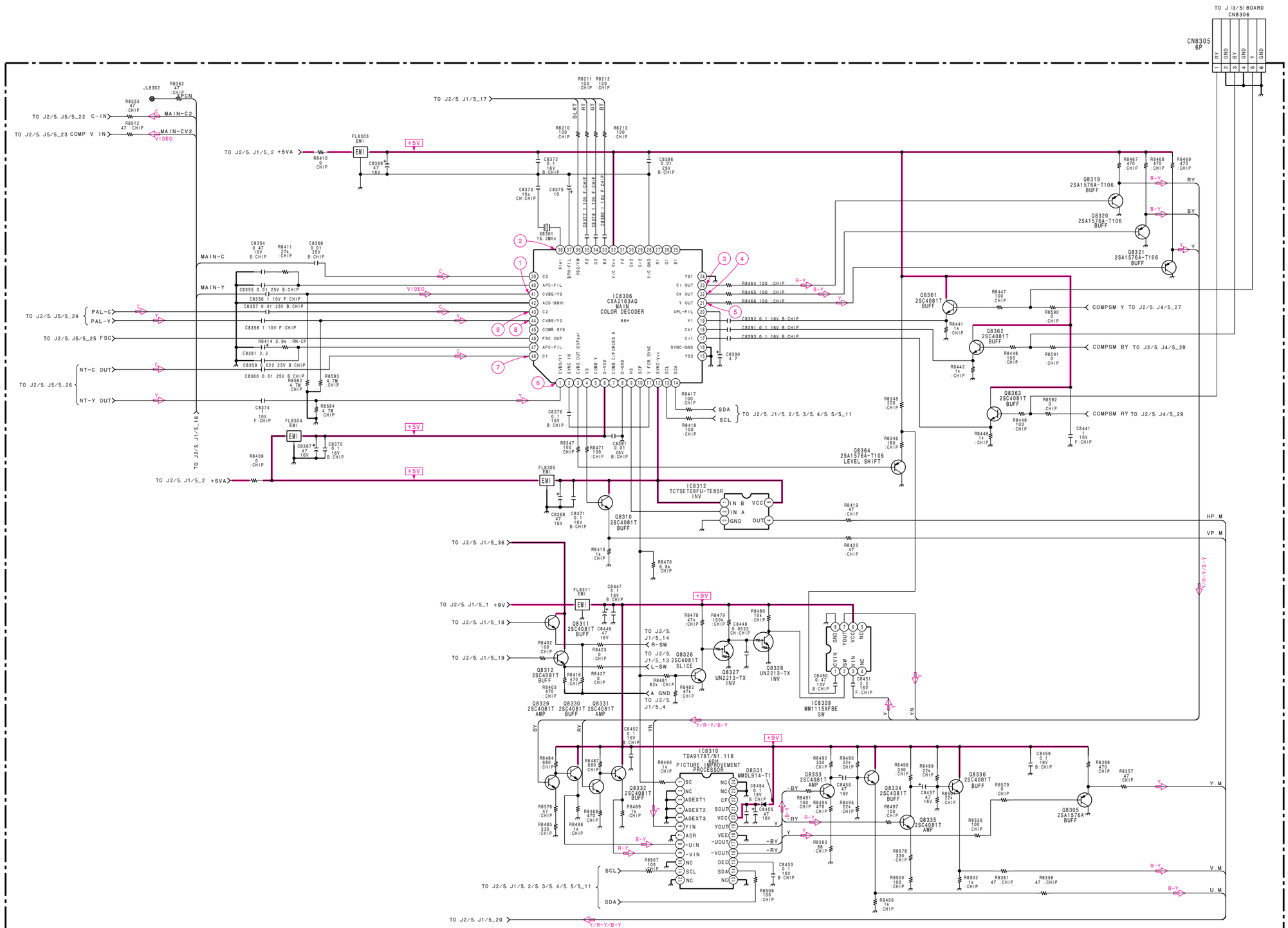
H2 [AV INPUT, KEY]

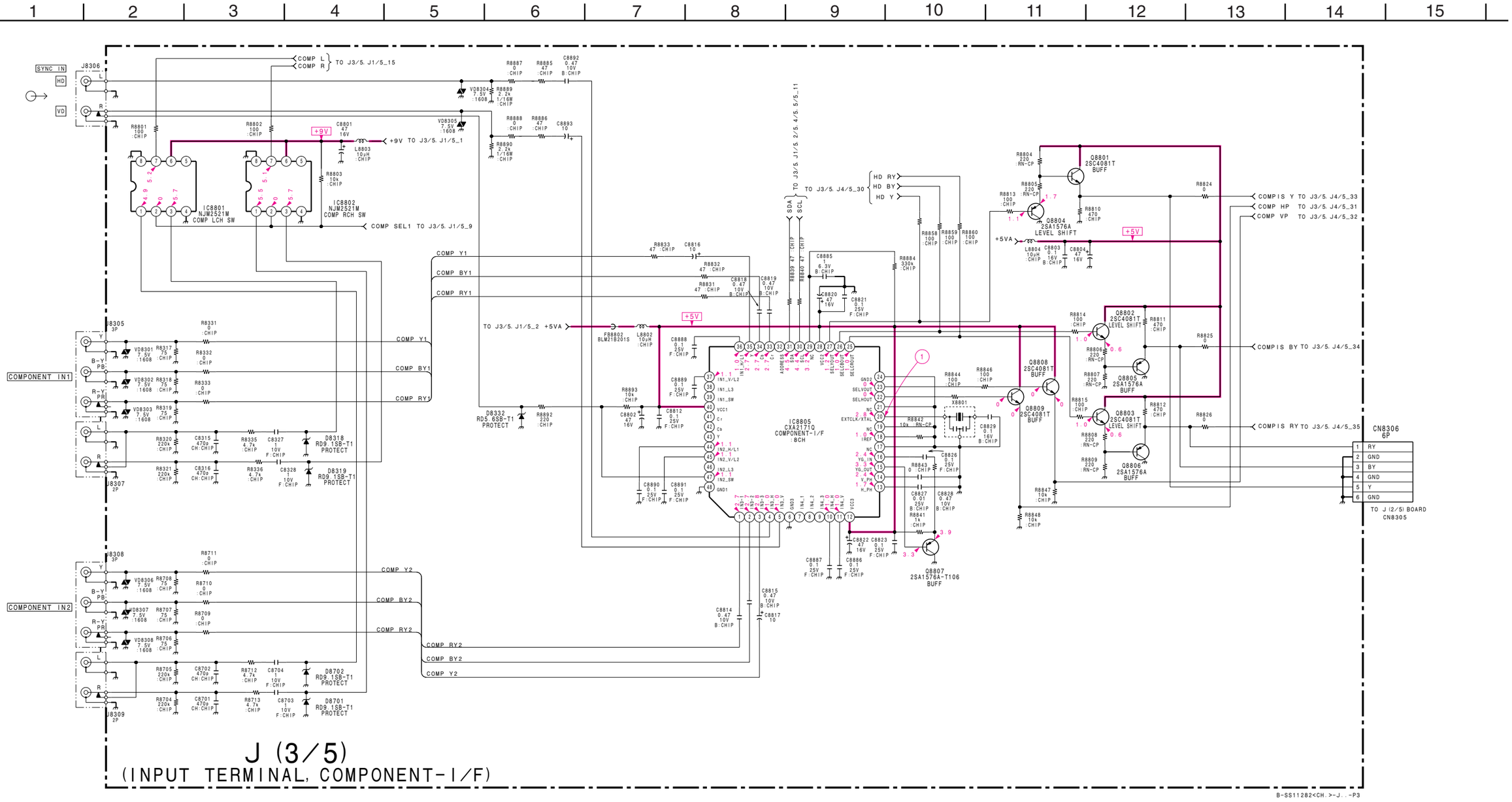
— H2 BOARD (CODUCTOR SIDE) —

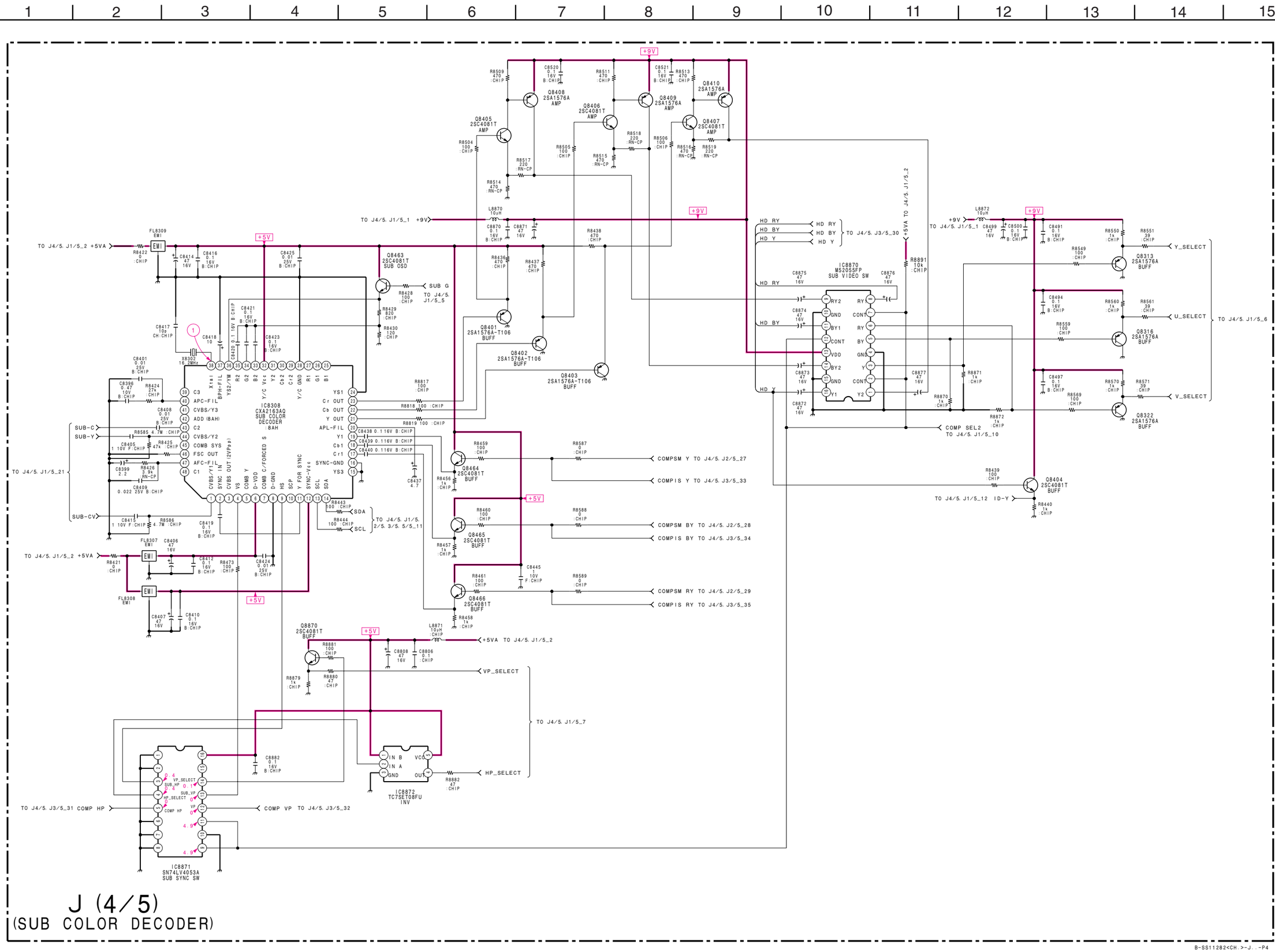


(14) Schematic Diagram of J(1/5) Board

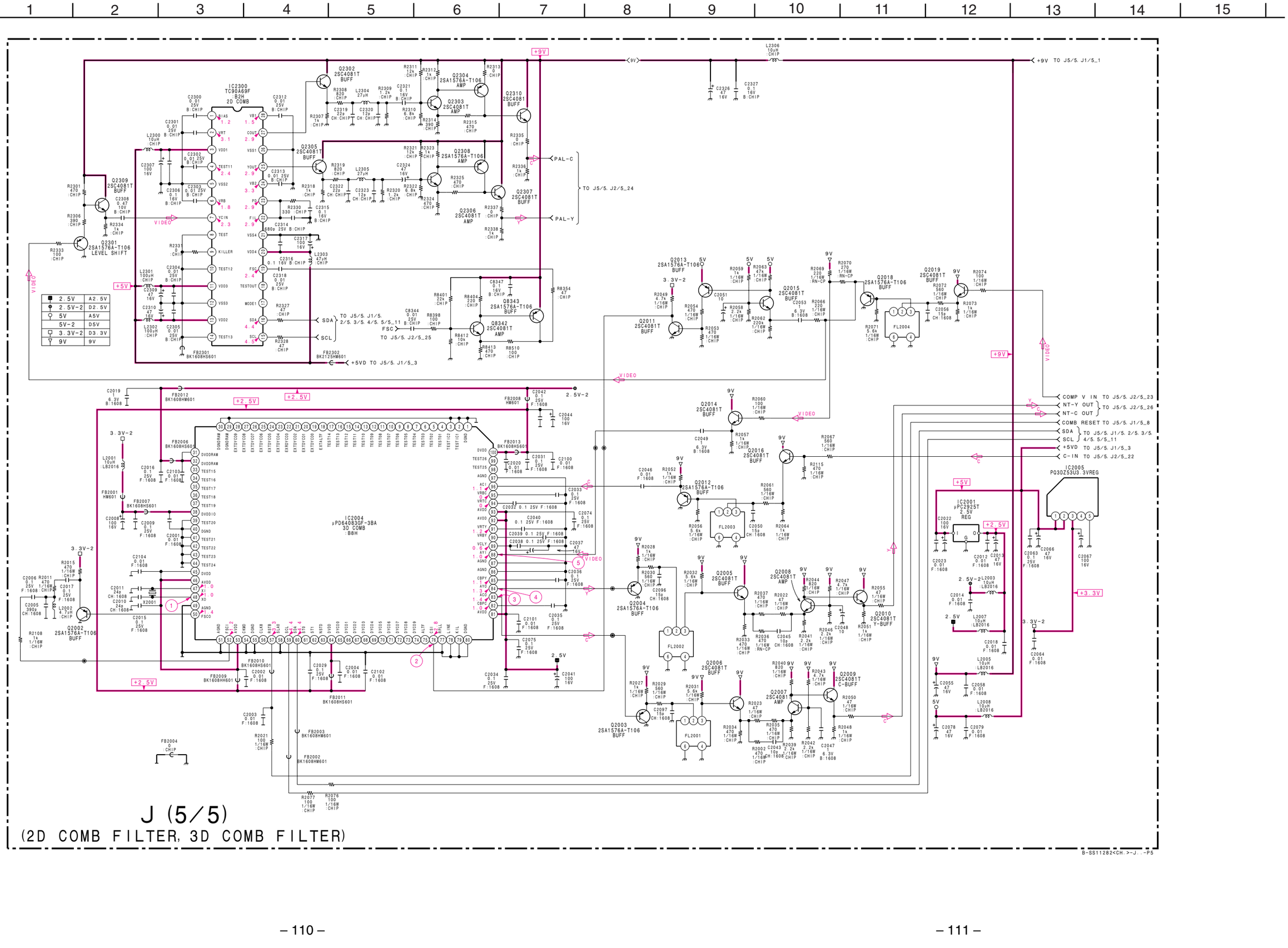



TO J (3/5) BOARD CN8306
CN8305 6P
RY
GND
BY
GND
Y
GND
IC8306 CXA2162AQ MAIN COLOR DECODER
IC8312 TC7SET08FU-TE85R INV
IC8309 MM1115XFBE SW
IC8310 TDA9178T/N1.118 I2CH PICTURE IMPROVEMENT PROCESSOR
D8331 MMDL914-T1
Q8310 2SC4081T BUFF
Q8311 2SC4081T BUFF
Q8312 2SC4081T BUFF
Q8319 2SA1576A-T106 BUFF
Q8320 2SA1576A-T106 BUFF
Q8321 2SA1576A-T106 BUFF
Q8326 2SC4081T SLICE
Q8327 UN2213-TX INV
Q8328 UN2213-TX INV
Q8329 2SC4081T AMP
Q8330 2SC4081T BUFF
Q8331 2SC4081T AMP
Q8332 2SC4081T BUFF
Q8333 2SC4081T AMP
Q8334 2SC4081T BUFF
Q8335 2SC4081T AMP
Q8336 2SC4081T BUFF
Q8361 2SC4081T BUFF
Q8362 2SC4081T BUFF
Q8363 2SC4081T BUFF
Q8364 2SA1576A-T106 LEVEL SHIFT
Q8305 2SA1576A BUFF
X8301 16.2MHz
JL8302
TO J2/5. J5/5_22 C-IN
TO J2/5. J5/5_23 COMP V IN
TO J2/5. J1/5_2 +5VA
TO J2/5. J1/5_17
TO J2/5. J1/5_36
TO J2/5. J1/5_1 +9V
TO J2/5. J1/5_18
TO J2/5. J1/5_19
TO J2/5. J5/5_24 PAL-C
PAL-Y
TO J2/5. J5/5_25 FSC
NT-C OUT
NT-Y OUT
TO J2/5. J5/5_26
TO J2/5. J1/5_16
TO J2/5. J1/5_14 R-SW
TO J2/5. J1/5_13 L-SW
TO J2/5. J1/5_4 A GND
TO J2/5. J1/5_2 +5VA
TO J2/5. J1/5_11 SDA SCL
TO J2/5. J1/5_2. 3/5. 4/5. 5/5_11
TO J2/5. J1/5_20
MAIN-C
MAIN-Y
VIDEO
+5V
+9V
SDA
SCL
R-Y
B-Y
Y
RY
BY
HP.M
VP.M
Y.M
V.M
U.M
COMPSM Y TO J2/5. J4/5_27
COMPSM BY TO J2/5. J4/5_28
COMPSM RY TO J2/5. J4/5_29
Y/R-Y/B-Y
J (2/5)
(MAIN COLOR DECODER, PICTURE IMPROVEMENT PROCESSOR)
B-SS11282<CH.>-J..-P2


SYNC IN
HD
VD
J8306
COMP L
COMP R
TO J3/5. J1/5_15
+9V TO J3/5. J1/5_1
IC8801 NJM2521M COMP LCH SW
IC8802 NJM2521M COMP RCH SW
COMP SEL1 TO J3/5. J1/5_9
TO J3/5. J1/5_5 4/5 5/5 11
TO J3/5. J4/5_30
HD RY
HD BY
HD Y
TO J3/5. J1/5_2 +5VA
COMP Y1
COMP BY1
COMP RY1
COMPONENT IN1
J8305
J8307
COMP Y2
COMP BY2
COMP RY2
COMPONENT IN2
J8308
J8309
IC8805 CXA2171Q COMPONENT-I/F :8CH
D8332 RD5.6SB-T1 PROTECT
D8318 RD9.1SB-T1 PROTECT
D8319 RD9.1SB-T1 PROTECT
D8702 RD9.1SB-T1 PROTECT
D8701 RD9.1SB-T1 PROTECT
Q8801 2SC4081T BUFF
Q8804 2SA1576A LEVEL SHIFT
Q8802 2SC4081T LEVEL SHIFT
Q8805 2SA1576A BUFF
Q8803 2SC4081T LEVEL SHIFT
Q8806 2SA1576A BUFF
Q8808 2SC4081T BUFF
Q8809 2SC4081T BUFF
Q8807 2SA1576A-T106 BUFF
COMPIS Y TO J3/5. J4/5_33
COMP HP TO J3/5. J4/5_31
COMP VP TO J3/5. J4/5_32
COMPIS BY TO J3/5. J4/5_34
COMPIS RY TO J3/5. J4/5_35
CN8306 6P
1 RY
2 GND
3 BY
4 GND
5 Y
6 GND
TO J (2/5) BOARD CN8305
J (3/5)
(INPUT TERMINAL, COMPONENT-I/F)
B-SS11282<CH.>-J..-P3

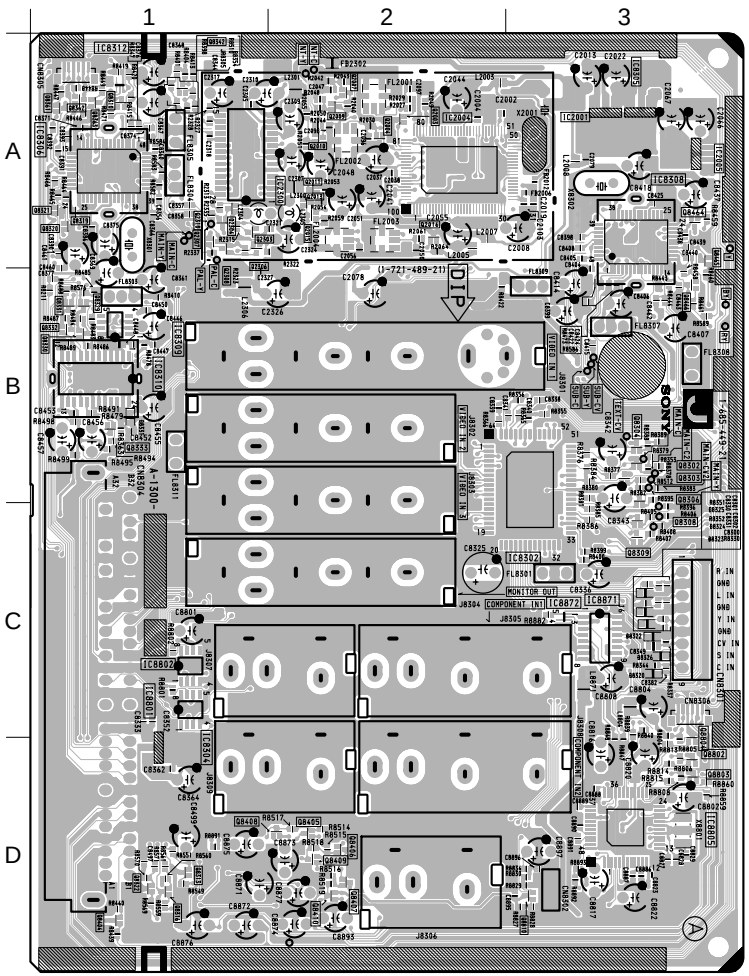


B-SS11282<CH.>-J. .-P4

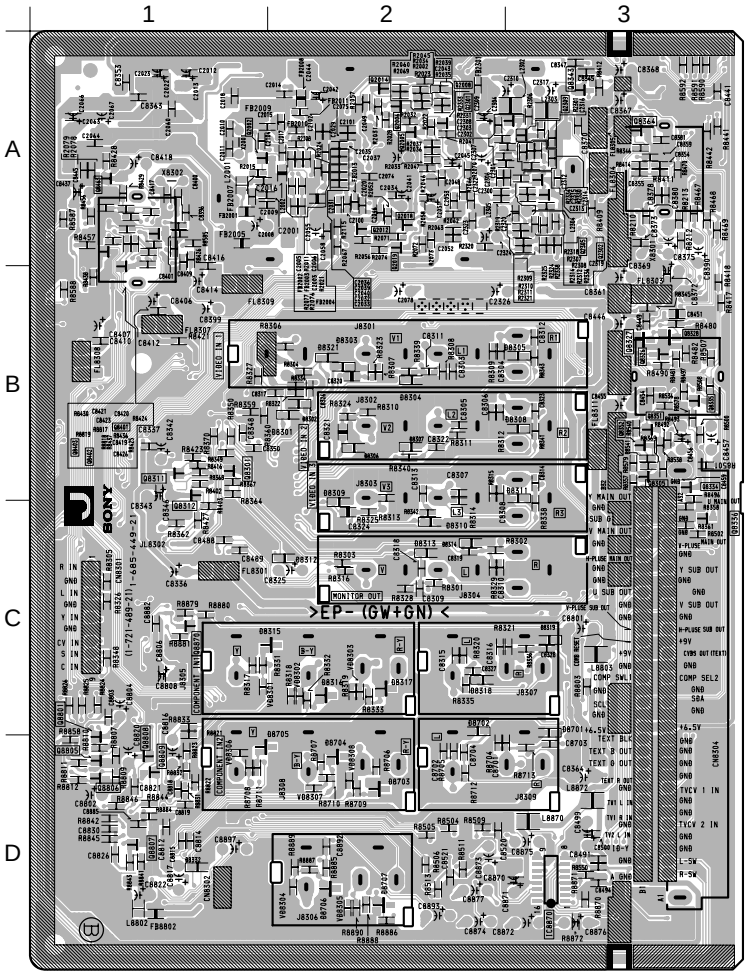

J (5/5)
(2D COMB FILTER, 3D COMB FILTER)
B-SS11282<CH.>-J.:-P5
IC2300 TC90A69F :B2H 2D COMB
IC2004 μPD64083GF-3BA 3D COMB :B8H
IC2005 PQ3DZ53U3.3VREG
IC2001 μPC2925T 2.5V REG
Q2301 2SA1576A-T106 LEVEL SHIFT
Q2002 2SA1576A-T106 BUFF
Q2003 2SA1576A-T106 BUFF
Q2004 2SA1576A-T106 BUFF
Q2011 2SC4081T BUFF
Q2012 2SA1576A-T106 BUFF
Q2013 2SA1576A-T106 BUFF
Q2014 2SC4081T BUFF
Q2016 2SC4081T BUFF
Q2018 2SA1576A-T106 BUFF
Q2019 2SC4081T BUFF
Q2015 2SC4081T BUFF
Q2010 2SC4081T Y-BUFF
Q2009 2SC4081T C-BUFF
Q2007 2SC4081 AMP
Q2008 2SC4081T AMP
Q2006 2SC4081T BUFF
Q2005 2SC4081T BUFF
Q2309 2SC4081T BUFF
Q2302 2SC4081T BUFF
Q2305 2SC4081T BUFF
Q2310 2SC4081 BUFF
Q2307 2SC4081T BUFF
Q2303 2SC4081T AMP
Q2304 2SA1576A-T106 AMP
Q2308 2SA1576A-T106 AMP
Q2306 2SC4081T AMP
Q8343 2SA1576A-T106 BUFF
Q8342 2SC4081 AMP
FL2001
FL2002
FL2003
FL2004
X2001
+9V
+5V
+2.5V
+3.3V
2.5V
3.3V-2
VIDEO
PAL-C
PAL-Y
SDA
SCL
FSC
+5VD TO J5/5. J1/5_3
TO J5/5. J2/5_24
TO J5/5. J1/5_1
COMP V IN TO J5/5. J2/5_23
NT-Y OUT
NT-C OUT
TO J5/5. J2/5_26
COMB RESET TO J5/5. J1/5_8
TO J5/5. J1/5. 2/5. 3/5. 4/5. 5/5_11
C-IN TO J5/5. J2/5_22

J [AV SW, COLOR DEC.,COMPOMENT I/F, 2D/3D COMB FILTER]

— J BOARD (COMPONENT SIDE) —



— J BOARD (CODUCTOR SIDE) —



• J BOARD SEMICONDUCTOR LOCATION

IC

	(Component Side)	(Conductor Side)
IC2001	A-3	
IC2004	A-2	
IC2005	A-3	
IC2300	A-1	
IC8302	B-3	
IC8304	D-1	
IC8305	A-3	
IC8306	A-1	
IC8308	A-3	
IC8309	B-1	
IC8310	B-1	
IC8312	A-1	
IC8801	C-1	
IC8802	C-1	
IC8805	D-3	
]\IC8870		D-3
IC8871	C-1	
IC8872	C-1	

TRANSISTOR

	(Component Side)	(Conductor Side)	*
Q2002		A-1	①
Q2003	A-2		②
Q2004	A-2		②
Q2005		A-2	①
Q2006		A-2	①
Q2007	A-2		②
Q2008		A-2	①
Q2009	A-2		②
Q2010	A-2		②
Q2011	A-2		②
Q2012		A-2	①
Q2013	A-2		②
Q2014		A-2	①
Q2015	A-2		②
Q2016	A-2		②
Q2018		A-2	①
Q2019		A-2	①
Q2301		A-3	①
Q2302		A-3	①
Q2303	A-1		②
Q2304	A-1		②
Q2305		A-3	①
Q2306	A-1		②
Q2307	A-1		②
Q2308	A-1		②
Q2309		A-3	①
Q2310	A-1		②
Q8301		B-1	①
Q8302	B-3		②
Q8303	B-3		②
Q8304	B-3		②
Q8305		B-3	①
Q8306	C-3		②
Q8308	C-3		②
Q8309	C-3		②
Q8310	A-1		②
Q8311		B-1	①
Q8312		B-1	①
Q8313	D-1		②
Q8316	D-1		②
Q8319	A-1		②
Q8320	A-1		②
Q8321	A-1		②
Q8322	D-1		②
Q8326		B-3	①
Q8327		B-3	①
Q8328		B-3	①
Q8329	B-1		②
Q8330	B-1		②
Q8331	B-1		②
Q8332	B-1		②
Q8333	B-1		②
Q8334		B-3	①
Q8335		B-3	①
Q8336		C-3	①
Q8342	A-1		②
Q8343		A-3	①
Q8361	A-1		②
Q8362	A-1		②
Q8363	A-1		②
Q8364		A-3	①
Q8401		A-1	①
Q8402		B-1	①
Q8403		A-1	①
Q8404	D-1		②
Q8405	D-2		②
Q8406	D-2		②
Q8407	D-2		②
Q8408	D-2		②
Q8409	D-2		②
Q8410	D-2		②
Q8463		A-1	①
Q8464	A-3		②
Q8465	A-3		②
Q8466	B-3		②
Q8801		D-1	①
Q8802	D-3		②
Q8803	D-3		②
Q8804	D-3		②
Q8805		D-1	①
Q8806		D-1	①
Q8807		D-1	①
Q8808		D-1	①
Q8809		D-1	①
Q8870		C-1	①

DIODE

	(Component Side)	(Conductor Side)	*
D8301		B-2	③
D8302		B-2	③
D8303		B-2	③
D8304		B-2	③
D8305		B-3	③
D8306		B-2	③
D8307		B-2	③
D8308		B-3	③
D8309		C-2	③
D8310		C-2	③
D8311		B-3	③
D8312		C-2	③
D8313		C-2	③
D8314		C-2	③
D8318		C-2	③
D8319		C-3	③
D8320	C-3		③
D8321		B-2	③
D8322	C-3		③
D8323	C-3		③
D8324	C-3		③
D8325	C-3		③
D8326	C-3		③
D8331	B-1		③
D8332		D-1	③
D8701		C-3	③
D8702		C-2	③

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 47)

•J(1/5)BOARD WAVEFORMS

① 1.0VP-P(H)	② 2.0VP-P(H)	③ NTSC 0.5VP-P(H)	③ SECAM 0.5VP-P(H)
③ PAL 0.7VP-P(H)	④ PAL 1.2VP-P(H) NTSC/SECAM 0.9VP-P(H)	⑤ PAL1.2VP-P(H) NTSC/SECAM 0.9VP-P(H)	

•J(2/5) BOARD WAVEFORMS

① 2.0VP-P(H)	② 5.2VP-P(16.2MHz)	③ PAL 1.0VP-P(H) NTSC/SECAM 0.8VP-P(H)	④ PAL1.0VP-P(H) NTSC/SECAM 0.8VP-P(H)
⑤ NTSC 0.5VP-P(H)	⑤ SECAM 0.5VP-P(H)	⑤ PAL 0.7VP-P(H)	⑥ 0.9VP-P(H)
⑦ 0.6VP-P(H)	⑧ 1.0VP-P(H)	⑨ 0.5VP-P(H)	

•J(3/5)BOARD WAVEFORM

① 96.5mVP-P (MHz)

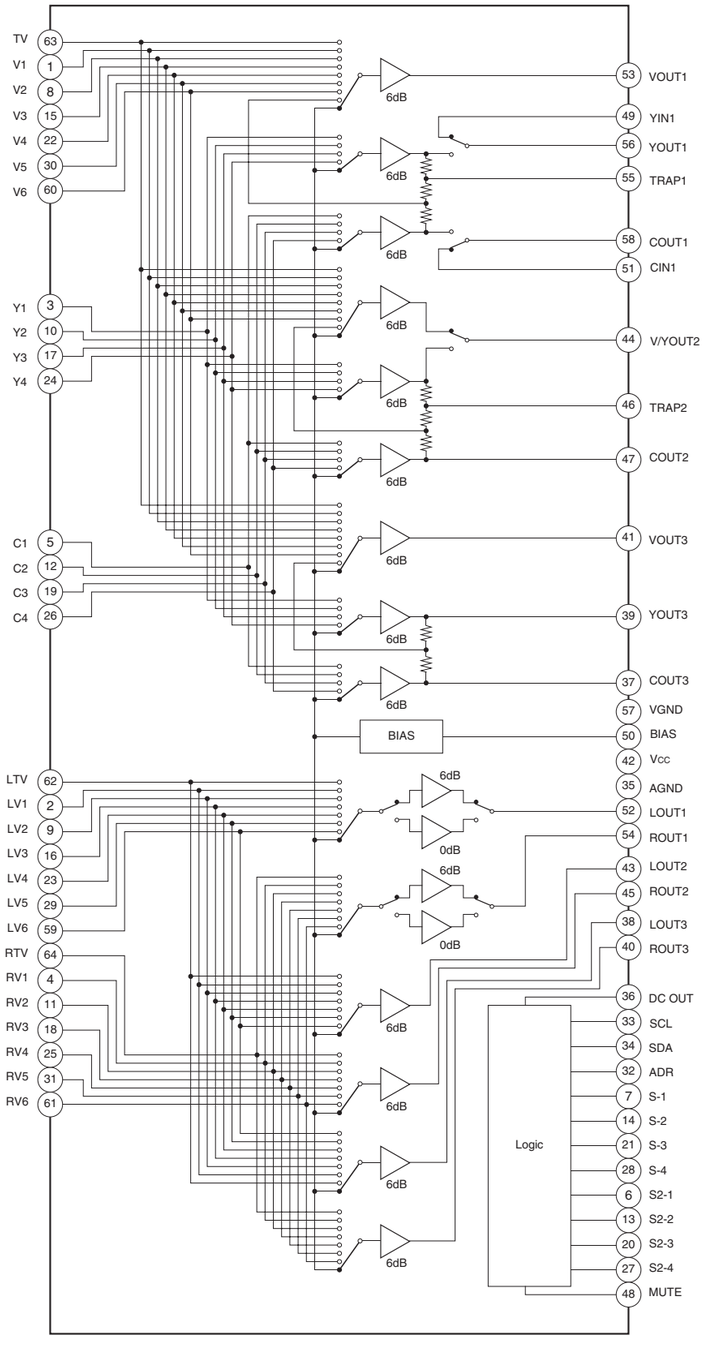
•J(4/5)BOARD WAVEFORM

① 300mVP-P (16.2MHz)

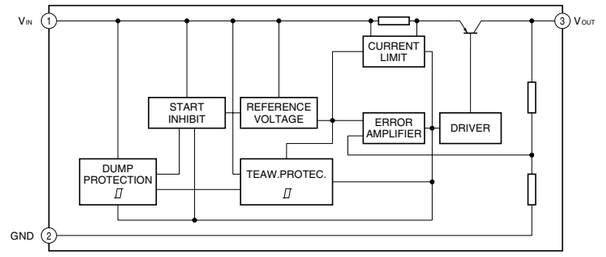
•J(5/5)BOARD WAVEFORMS

① 2.3VP-P(MHzH)	② 3.2VP-P(H)	③ 0.3VP-P(H)	④ 0.9VP-P(H)	⑤ 0.9VP-P(H)

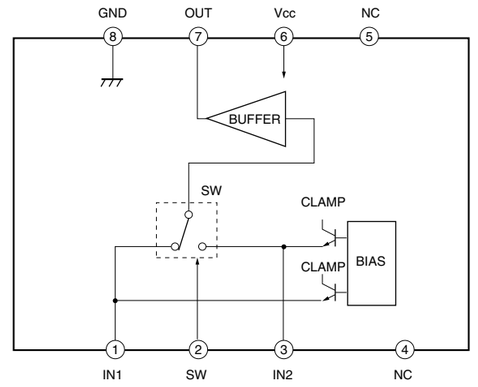
• J(1/5) BOARD IC8302 : CXA2069Q



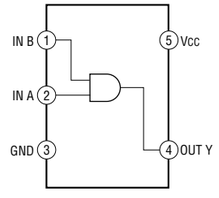
• J(1/5) BOARD IC8304, 8305 : LF50CDDT-TR



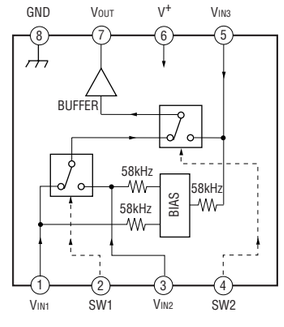
• J(2/5) BOARD IC8309 : MM1111XFBE



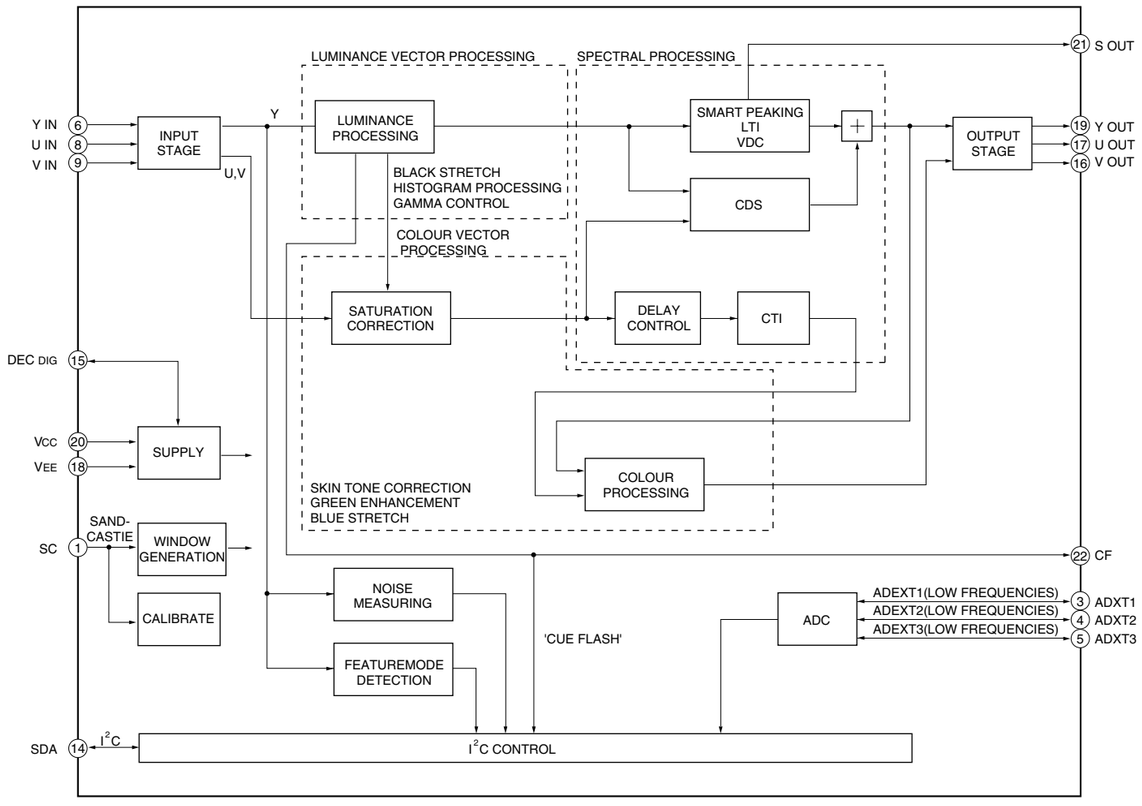
• J(2/5) BOARD IC8312 : TC7SET08FU
J(4/5) BOARD IC8872 : TC7SET08FU



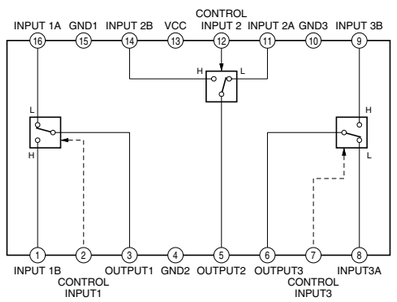
• J(3/5) BOARD IC8801, 8802 : NJM2521M



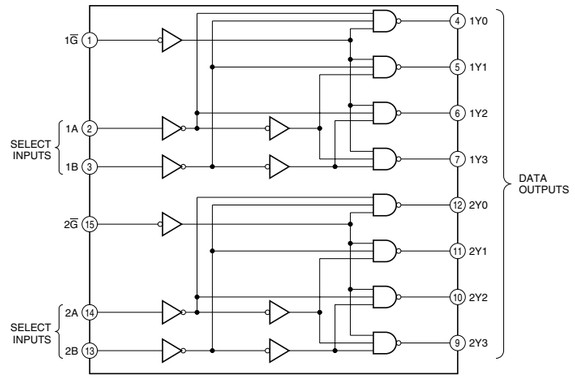
• **J(2/5) BOARD IC8310 : TDA9178**



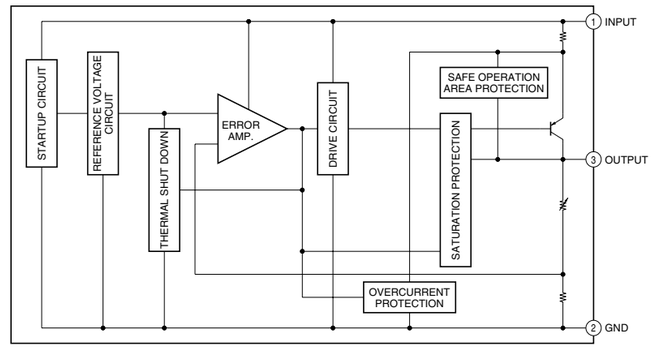
• **J(4/5) BOARD IC8870 : M52055FP**



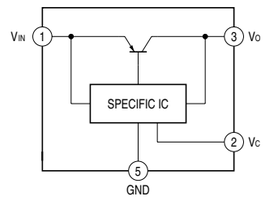
• **J(4/5) BOARD IC8871 : SN74LV4053ANSR**



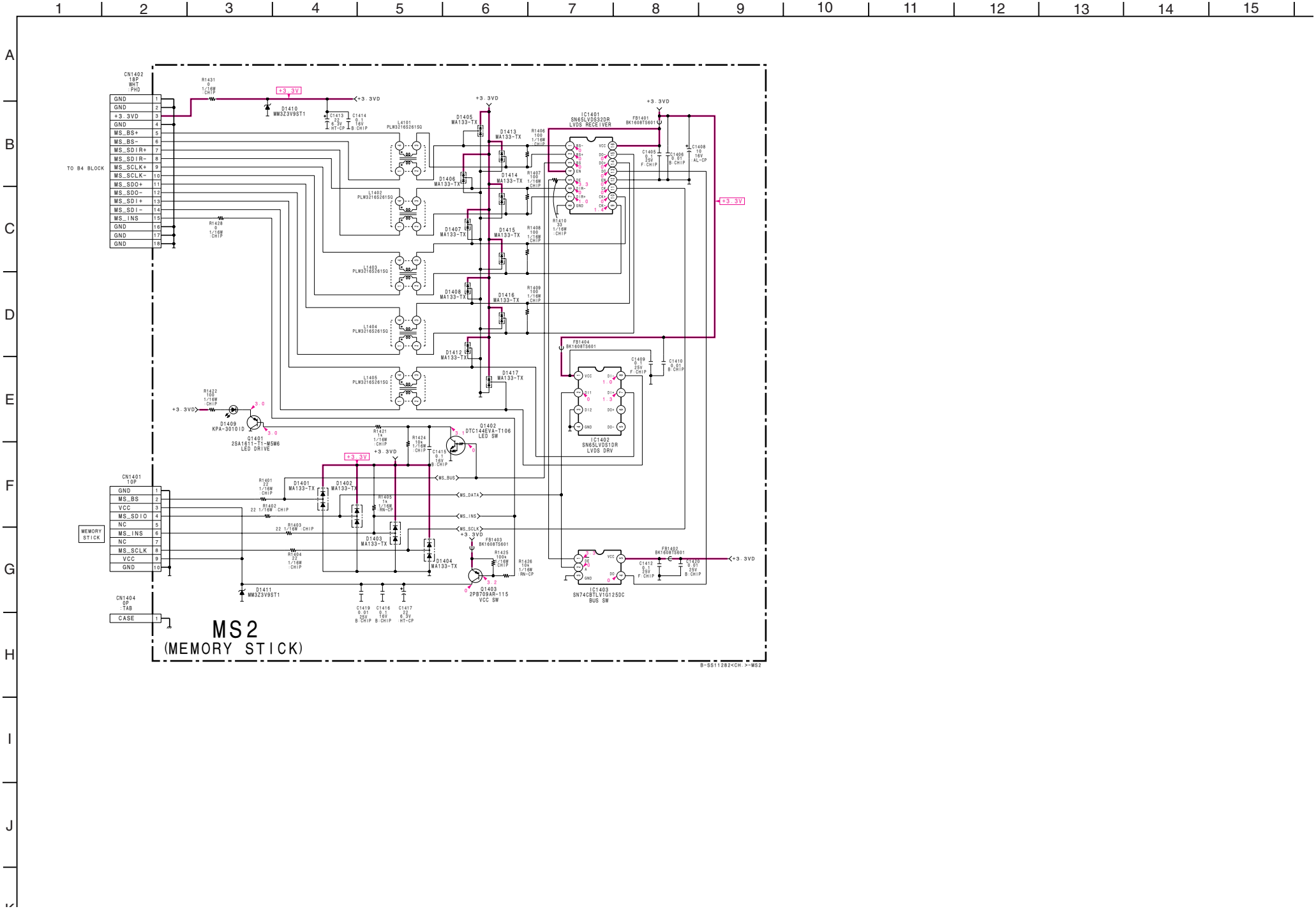
• **J(5/5) BOARD IC2001 : UPC2925T-E1**

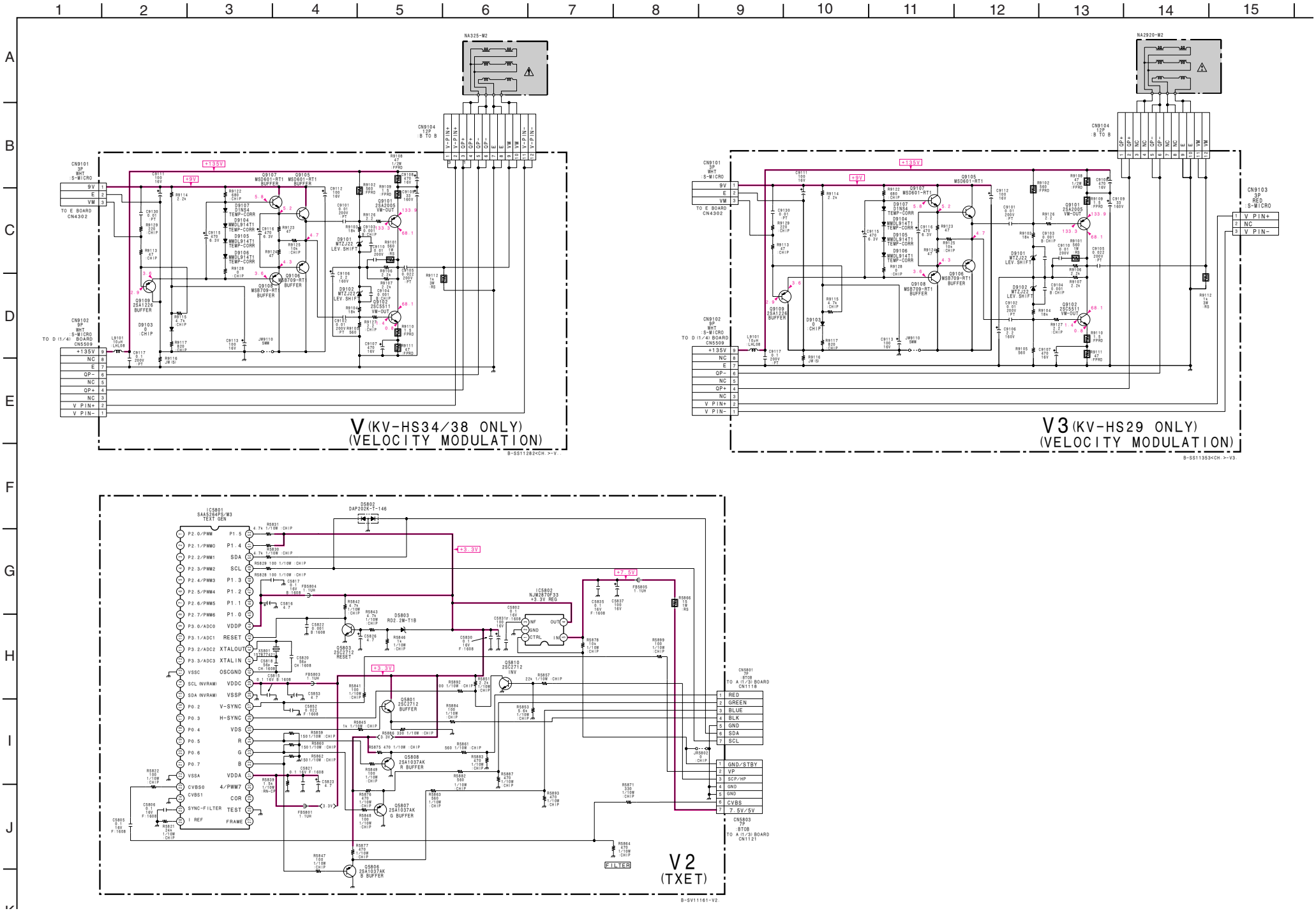


• **J(5/5) BOARD IC2005 : PQ3DZ53**



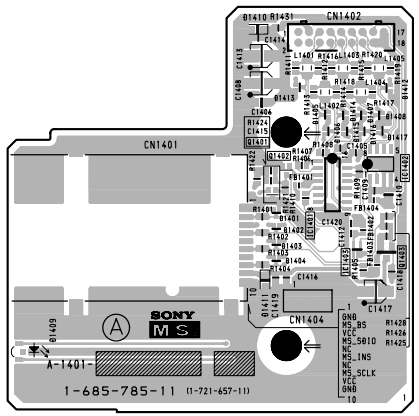
(19) Schematic Diagram of MS2 Board



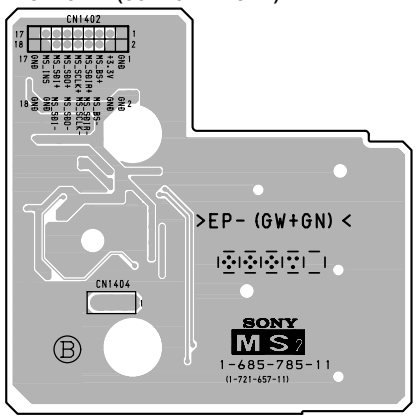

V (KV-HS34/38 ONLY)
(VELOCITY MODULATION)
V3 (KV-HS29 ONLY)
(VELOCITY MODULATION)
V2
(TXET)

MS2 [MEMORY STICK]

— MS2 BOARD (COMPONENT SIDE) —



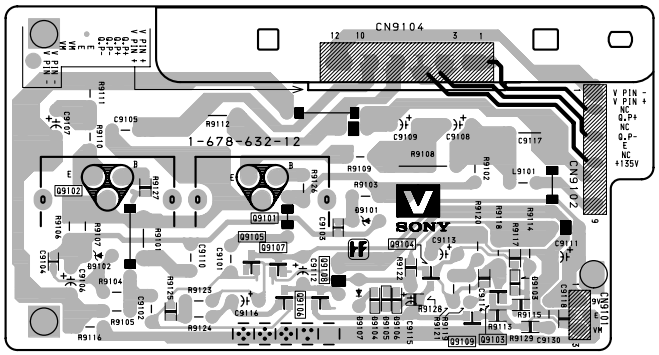
— MS2 BOARD (COMPONENT SIDE) —



V [VELOCITY MODULATION]

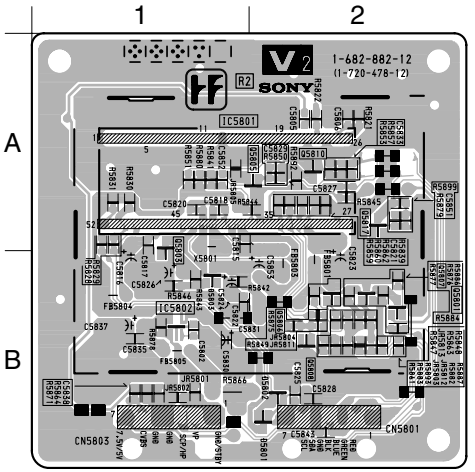
(KV-HS34/HS38)

— V BOARD (COMPONENT SIDE) —



V2 [TEXT]

— V2 BOARD (CODUCTOR SIDE) —



• **V2 BOARD SEMICONDUCTOR LOCATION**

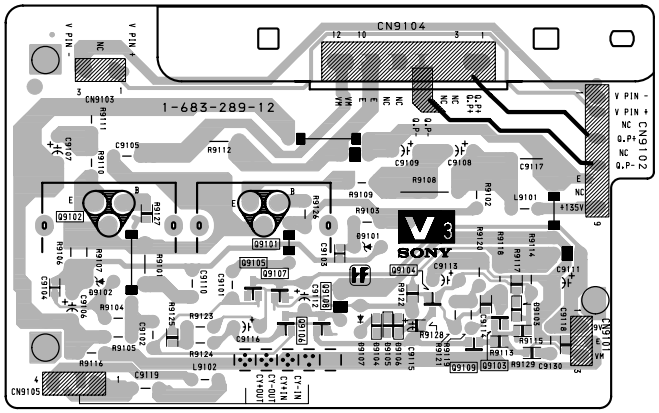
Ref.	✻
D5802	⑩
D5803	④
Q5801, 5803 Q5806-5808 Q5810	①

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 80)

V3 [VELOCITY MODULATION]

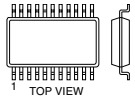
(KV-HS29M)

— V3 BOARD (COMPONENT SIDE) —



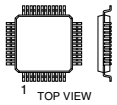
5-4. SEMICONDUCTORS

CA0007AM
LM339NS
MC74HC74AFELHC
MM74HC32SJK
NJM2058M-TE2
SN74HC74ANS
SN74HC74ANSR
TLC2932IPWR
TLC2932IPW-E20
TLC2933IPWR-12



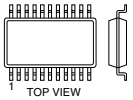
14pin SOP

CM0006CF



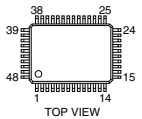
80pin QFP

CXA1875AM-T4
MC74HC4538AF
MC74HC4538AFEL
PCM56P
PCM56P-L

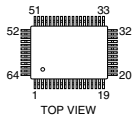


16pin SOP

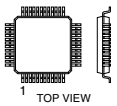
CXA2123BQ-T6



CXA2069Q
CXA2100AQ
CXP750096-040Q-TL
CXP86324-028Q



CXA3266Q-T6
CXD2064Q-T6
CXD2309Q-T6



48pin QFP

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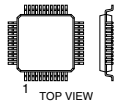

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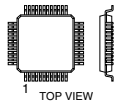
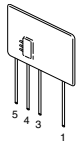


240pin QFP

DM-58



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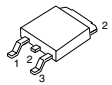

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TC7W04F
TC7W04F(TE12R)
TC7W08F
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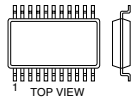

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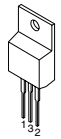

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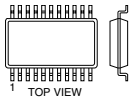

86pin SOP

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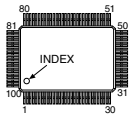

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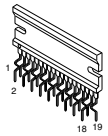

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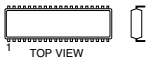

16pin DIP

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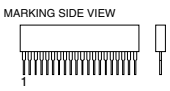

8pin SIP

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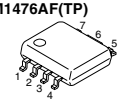

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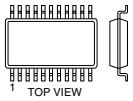

50pin SOP

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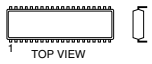

14pin DIP

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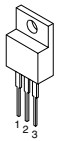

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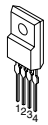

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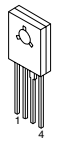

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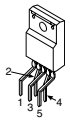

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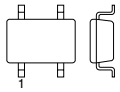

5pin CHIP

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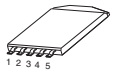

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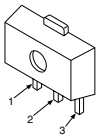

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14pin SOP

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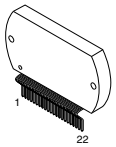

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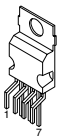

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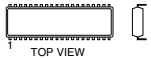

8pin DIP

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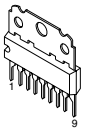

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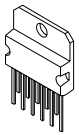

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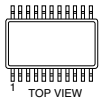

20pin SOP

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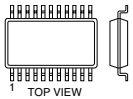

24pin SOP

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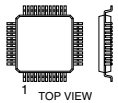

64pin QFP

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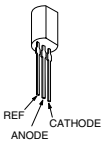

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2SB709A-QRS-TX
2SC1623-L5L6
2SD2114K
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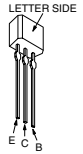

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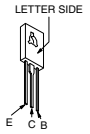
2SC2688-LK



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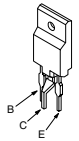

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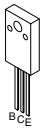

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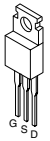

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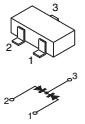

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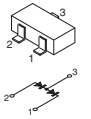

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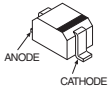

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EL1Z
EL1Z-V1
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ERA22-08TP3
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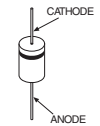

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MTZJ-13B
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MM3Z5V6ST1
MM3Z6V2ST1
MM3Z8V2ST1
RD10ESB2
RD13ES-B2
RD15ES-B1
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RD2.2ES-B2
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RD5.1ESB2
RD7.5ES-B2
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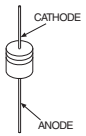

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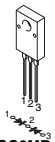
D10SC6M-4012



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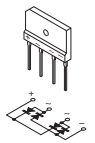

D5L60

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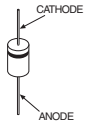

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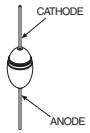

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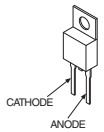
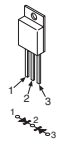
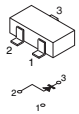


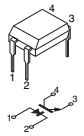
FMG-36S-LF024-104



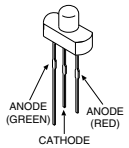
MA3062M-TX
MA3220M-TX



ON3171-R



SPR-325MVW



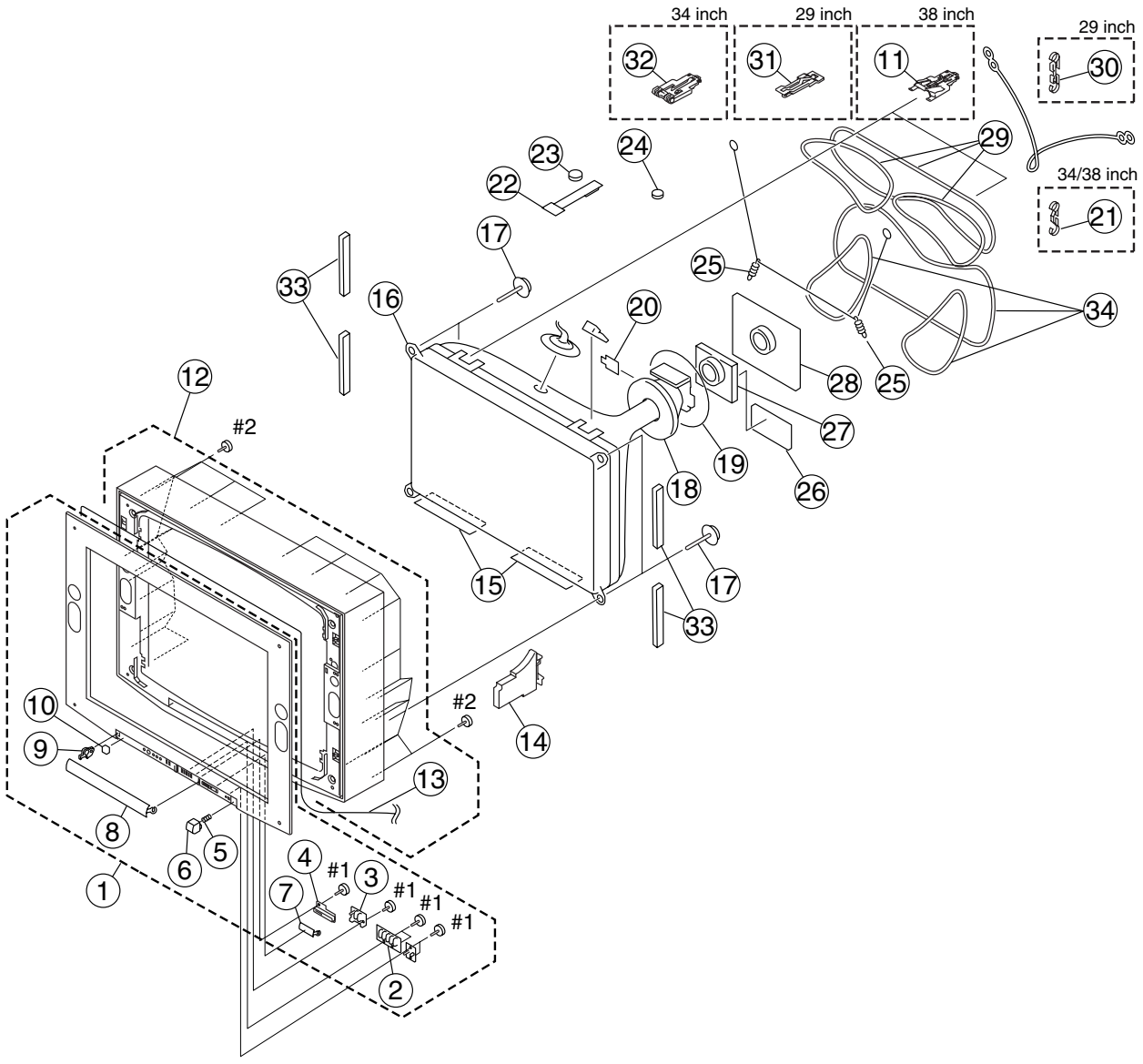
SECTION 6
EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

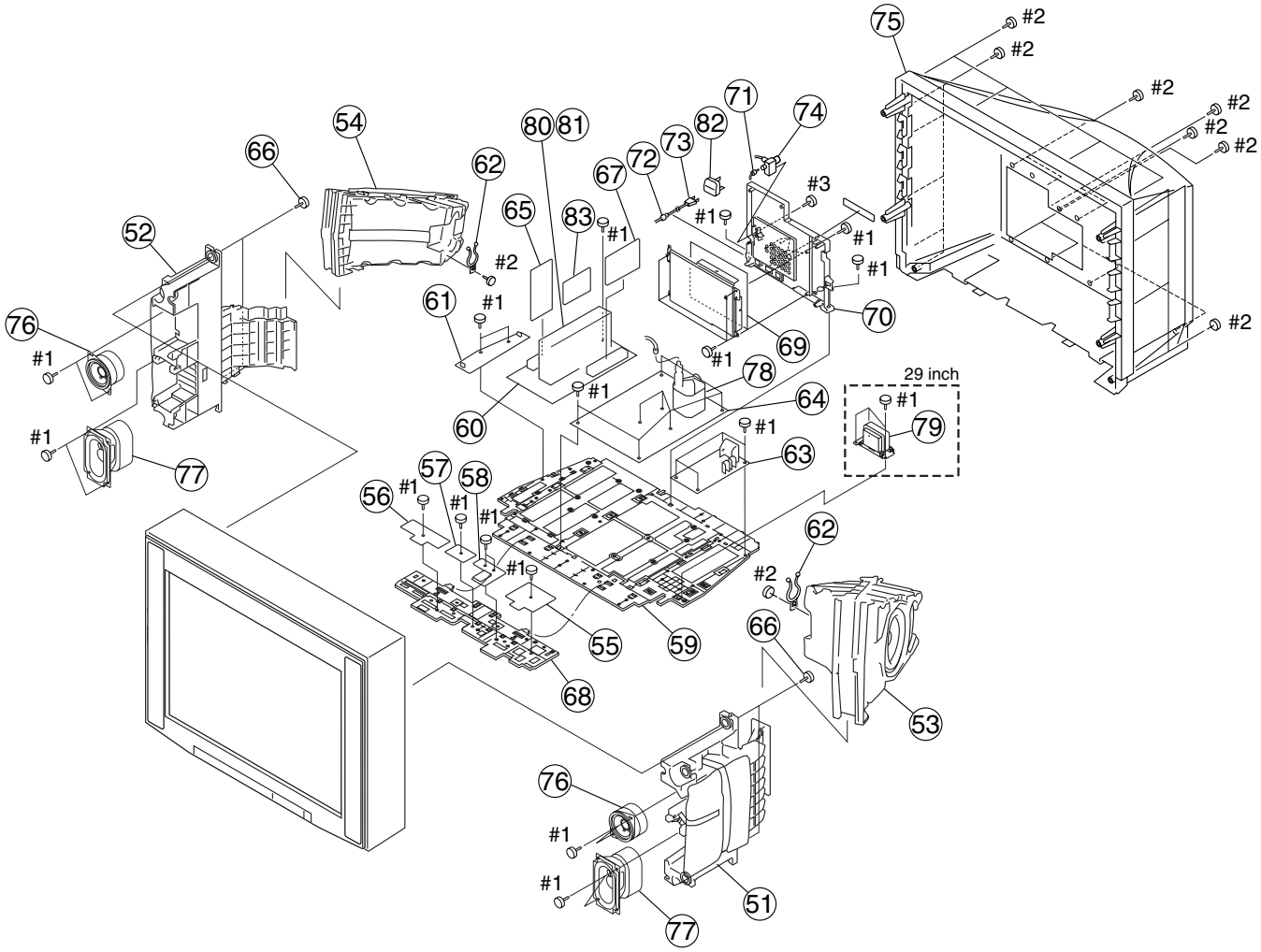
The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. PICTURE TUBE



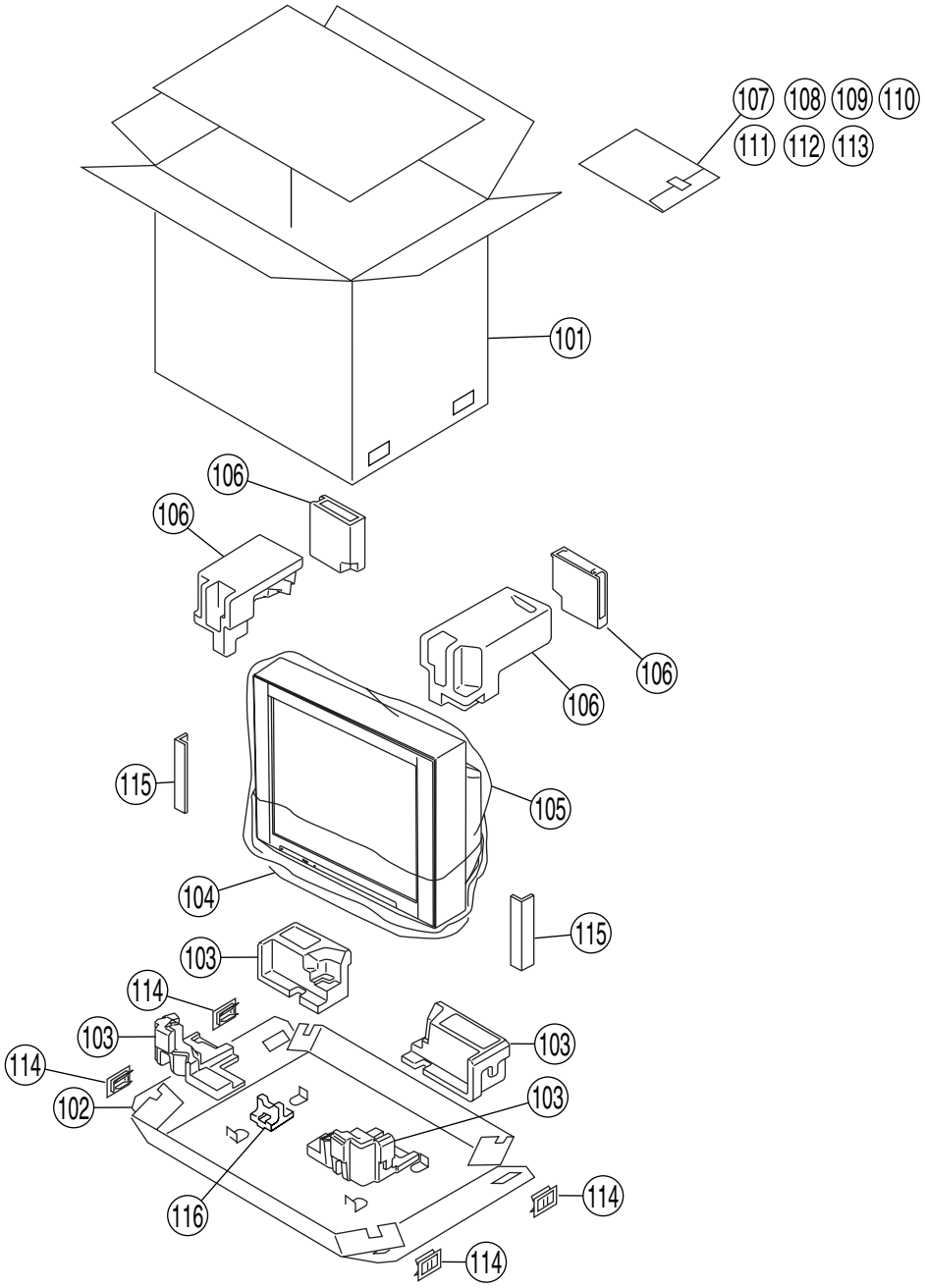
REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4040-663-1	BEZEL ASSY(KV-HS38)	1-10
	X-4040-662-2	BEZEL ASSY(KV-HS34)	1-10
	X-4040-828-2	BEZEL ASSY(KV-HS29)	1-10
2	4-090-356-01	BUTTON, MULTI (A)	
3	4-090-357-01	BUTTON, MULTI (B)	
4	4-090-361-01	HOLDER, ORNAMENT (MS)	
5	4-036-405-11	SPRING, COMPRESSION	
6	4-090-358-11	BUTTON, POWER	
7	4-090-360-01	ORNAMENT (MS)	
8	4-090-355-11	DOOR	
9	4-076-673-03	DAMPER, DOOR	
10	4-072-630-01	CUSHION, DOOR	
11	4-067-221-03	CLIP, DGC(KV-HS38)	
12	X-4040-827-2	CABINET ASSY(KV-HS29)	
	X-4040-651-2	CABINET, ASSY(KV-HS38)	
	X-4040-650-3	CABINET, ASSY(KV-HS34)	
13	1-456-057-11	COIL, LANDING CORRECTION (KV-HS38)	
	1-456-056-11	COIL, LANDING CORRECTION (KV-HS34)	
	1-456-058-11	COIL, LANDING CORRECTION (KV-HS29)	
14	4-090-392-01	CRT SUPPORTER (KV-HS38)	
	4-090-385-01	CRT SUPPORTER (KV-HS34)	
	4-091-002-01	CRT SUPPORTER (KV-HS29)	
15	4-063-935-21	CUSHION (50X550), DGC (KV-HS29)	
	* 4-074-513-01	CUSHION (L), DGC (KV-HS34/38)	
16	⚠ 8-735-122-05	CRT 34RFEN (KV-HS34M61)	
	⚠ 8-735-125-05	CRT 29RFEN (KV-HS29M90)	
	⚠ 8-735-126-05	CRT 34RFEN (KV-HS34M91)	
	⚠ 8-735-116-05	CRT 34RFN (KV-HS34M90)	
	⚠ 8-735-124-05	CRT 38RFN (KV-HS38M90)	
	⚠ 8-735-130-05	CRT 38RFEN (KV-HS38M91)	
	⚠ 8-735-131-05	CRT 38RFEN (KV-HS38M61)	
	⚠ 8-735-139-05	CRT 38RFEN (KV-HS29M61/M91)	
17	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
18	⚠ 1-451-560-11	DEFLECTION YOKE Y29SEC-T (KV-HS29)	
	⚠ 8-451-532-11	DEFLECTION YOKE Y34RFC-M (KV-HS34)	
	⚠ 8-451-533-11	DEFLECTION YOKE Y38RFC-M (KV-HS38)	
19	1-456-351-21	COIL, NA ROTATION(KV-HS38)	
	1-456-351-11	COIL, NA ROTATION(KV-HS29/34)	
20	2-163-920-01	PLATE, TLH CORRECTION (KV-HS34/38M90)	
21	4-061-369-01	HOLDER, DEGAUSE COIL (KV-HS38)	
	* 4-054-297-01	HOLDER, DGC (KV-HS34)	
22	4-051-734-42	PIECE B(120), CONV, CORRECT	
23	1-452-032-00	MAGNET,DISC	
24	1-452-094-00	CIRCULAR DISC MAGNET B	
25	4-369-318-61	SPRING, TENSION (KV-HS29)	
	4-065-852-21	SPRING, TENSION (KV-HS34/38)	
26	* A-1401-747-A	V BOARD, MOUNT (KV-HS34/38)	
	* A-1401-883-A	V3 BOARD, MOUNT (KV-HS29)	
27	⚠ 8-453-022-21	NA2920-M2 (KV-HS29)	
	⚠ 8-453-009-21	NA325-M2 (KV-HS34/38)	
28	* A-1401-746-A	C1 BOARD, MOUNT (KV-HS34/38)	
	* A-1401-882-A	C1 BOARD, MOUNT (KV-HS29)	
29	⚠ 1-456-059-11	COIL, DEGAUSS (WITH LCC) (KV-HS38)	
	⚠ 1-456-061-11	COIL, DEGAUSS (WITH LCC) (KV-HS34)	
	⚠ 1-456-063-11	COIL, DEGAUSS (WITH LCC) (KV-HS29)	
30	4-061-369-01	HOLDER, DEGAUSE COIL (KV-HS29M61/M91)	
	4-064-883-03	HOLDER, DEGAUSE COIL (KV-HS29M90)	
31	* 4-062-970-01	CLIP (29RSN), DGC (KV-HS29)	
32	4-067-221-03	CLIP, DGC (KV-HS34)	
33	* 4-074-512-01	CUSHION (S), DGC	
34	⚠ 1-456-059-21	COIL, DEGAUSS (WITH LCC) (KV-HS38)	
	⚠ 1-456-061-21	COIL, DEGAUSS (WITH LCC) (KV-HS34)	
	⚠ 1-456-063-21	DGC WITH LCC (WITH LCC) (KV-HS29)	
#1	7-685-648-79	+BVTP 3X12	
#2	7-685-663-79	+BVTP 4X16	

6-2. CHASSIS



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* X-4040-961-1	ARM (R) ASSY(KV-HS38)	
	* X-4040-957-1	ARM (R) ASSY(KV-HS34)	
	* X-4040-963-1	ARM (R) ASSY(KV-HS29)	
52	* X-4040-960-1	ARM (L) ASSY(KV-HS38)	
	* X-4040-956-1	ARM (L) ASSY(KV-HS34)	
	* X-4040-962-1	ARM (L) ASSY(KV-HS29)	
53	* X-4040-959-1	BOX (R) ASSY	
54	* X-4040-958-1	BOX (L) ASSY	
55	* A-1401-748-A	F2 BOARD, MOUNT	
56	* A-1401-750-A	H2 BOARD, MOUNT	
57	* A-1401-749-A	H1 BOARD, MOUNT	
58	* A-1401-751-A	MS2 BOARD, MOUNT	
59	* 4-090-351-02	BRACKET, MAIN	
60	* A-1300-846-A	A BOARD, COMPLETE(KV-HS34M90)	
	* A-1300-872-A	A BOARD, COMPLETE(KV-HS38M90)	
	* A-1300-899-A	A BOARD, COMPLETE(KV-HS29M90)	
	* A-1300-907-A	A BOARD, COMPLETE(KV-HS34M91)	
	* A-1300-908-A	A BOARD, COMPLETE(KV-HS34M61)	
	* A-1300-931-A	A BOARD, COMPLETE(KV-HS38M61)	
	* A-1300-932-A	A BOARD, COMPLETE(KV-HS38M91)	
	* A-1300-973-A	A BOARD, COMPLETE(KV-HS29M61)	
	* A-1300-975-A	A BOARD, COMPLETE(KV-HS29M91)	
61	* A-1401-752-A	F1 BOARD, MOUNT	
62	4-068-952-01	PURSE LOCK (FREE)	
63	* A-1401-753-A	DC BOARD, MOUNT(KV-HS34)	
	* A-1401-846-A	DC BOARD, MOUNT(KV-HS38)	
	* A-1401-880-A	DC BOARD, MOUNT(KV-HS29)	
64	* A-1300-849-A	D BOARD, COMPLETE(KV-HS34M90)	
	* A-1300-873-A	D BOARD, COMPLETE (KV-HS38M61/M90/M91)	
	* A-1300-900-A	D BOARD, COMPLETE(KV-HS29M90)	
	* A-1300-909-A	D BOARD, COMPLETE (KV-HS34M61/M91)	
	* A-1300-974-A	D BOARD, COMPLETE (KV-HS29M61/M91)	
65	* A-1401-756-A	A1 BOARD, MOUNT	
66	4-064-929-02	SCREW, TP+TWH 4X25	
67	* A-1401-757-A	E BOARD, MOUNT	
68	* 4-090-352-01	BRACKET, H	
69	* A-1300-848-A	J BOARD, COMPLETE	
70	4-090-353-01	BRACKET, J	
71	* 1-555-110-00	P-P CABLE	
72	4-022-115-00	HOLDER, AC CORD	
73	⚠ 1-590-501-21	CORD, POWER(WITH NOISE FILTER) (KV-HS29M90, HS34M90, HS38M90)	
	⚠ 1-791-439-11	CORD, POWER(WITH NOISE FILTER) (KV-HS29M61/M91, KV-HS34M61/M91, KV-HS38M61/M91)	
74	1-251-658-41	SPLITTER RF	
75	4-090-346-01	COVER, REAR(KV-HS38)	
	4-090-343-01	COVER, REAR(KV-HS34)	
	4-090-895-11	COVER, REAR(KV-HS29)	
76	1-825-227-11	SPEAKER (12CM)	
77	1-529-939-11	SPEAKER (9X5CM)	
78	⚠ 1-453-387-31	FBT ASSY NX-6020//M3J4(KV-HS38)	
	⚠ 1-453-445-11	FBT ASSY NX-6020//M3B4 (KV-HS29/34)	
79	1-419-547-11	COIL, CHOKE 37MMH(KV-HS29M90)	
80	* A-1300-847-A	B4 BOARD, COMPLETE	
81	* A-1300-650-A	BM1C BOARD, COMPLETE	
82	1-770-019-12	ADAPTOR CONVERTION (KV-HS29M90, KV-HS34M90, KV-HS38M90)	
83	A-1401-911-A	V2 BOARD, MOUNT (KV-HS29M61/M91, KV-HS34M61/M91, KV-HS38M61/M91)	
#1	7-685-648-79	+BVTP 3X12	
#2	7-685-663-79	+BVTP 4X16	
#3	7-682-947-09	+PSW 3X16	

6-3. PACKING MATERIALS



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-091-559-01	INDIVIDUALCARTON(KVHS38)	
	* 4-090-280-01	INDIVIDUAL CARTON(KV-HS34)	
	* 4-089-784-01	INDIVIDUALCARTON(KV-HS29)	
102	* 4-090-281-01	TRAY(KV-HS34)	
	* 4-091-482-01	TRAY(KV-HS29)	
103	* 4-091-562-01	CUSHION, LOWER(KV-HS38)	
	* 4-090-283-01	CUSHION, LOWER(KV-HS34)	
	* 4-089-786-01	CUSHION, LOWER(KV-HS29)	
104	4-091-525-01	SHEET, PROTECTION(KV-HS38)	
105	* 4-091-530-01	BAG, PROTECTION(KV-HS38)	
	* 4-029-168-01	BAG, PROTECTION(KV-HS29)	
	* 4-091-319-01	BAG, PROTECTION(KV-HS34)	
106	* 4-091-561-01	CUSHION, UPPER(KV-HS38)	
	* 4-090-282-01	CUSHION, UPPER(KV-HS34)	
	* 4-089-785-01	CUSHION, UPPER(KV-HS29)	
107	1-477-457-11	STANDARDTYPE COMMANDER (RM-997)	
108	1-769-175-21	CABLE, ANTENNA (WITH FILTER)	
109	4-090-175-21	MANUAL, INSTRUCTION (ENGLISH/SIMPLIFIED CHINESE/ TRADITIONAL CHINESE)	
	4-090-175-31	MANUAL, INSTRUCTION(ENGLISH)	
	4-090-175-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE/MALAYSIA/ TAI)	
	4-090-175-51	MANUAL, INSTRUCTION (FRENCH/ARABIC)	
110	4-091-075-01	INSTRUCTION (RF CABLE)	
111	4-392-003-11	BAND, HOLD	
112	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
113	4-392-004-11	CLIP	
114	4-074-287-01	JOINT	
115	* 4-086-500-01	POST, CORNER (KV-HS34/38)	
	* 4-086-785-01	POST, CORNER (KV-HS29)	
116	* 4-091-484-01	CUSHION, CENTER (KV-HS29)	
	* 4-092-044-01	CUSHION, CENTER (KV-HS34/38)	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1300-864-A	A BOARD, COMPLETE (KV-HS34M90) **********			
*	A-1300-872-A	A BOARD, COMPLETE (KV-HS38M90) **********			
*	A-1300-899-A	A BOARD, COMPLETE (KV-HS29M90) **********			
*	A-1300-907-A	A BOARD, COMPLETE (KV-HS34M91) **********			
*	A-1300-908-A	A BOARD, COMPLETE (KV-HS34M61) **********			
*	A-1300-931-A	A BOARD, COMPLETE (KV-HS38M61) **********			
*	A-1300-932-A	A BOARD, COMPLETE (KV-HS38M91) **********			
*	A-1300-973-A	A BOARD, COMPLETE (KV-HS29M61) **********			
*	A-1300-975-A	A BOARD, COMPLETE (KV-HS29M91) **********			
*	4-042-408-01	PIN, COATING LEAD			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C001	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C002	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C003	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C004	1-126-947-11	ELECT	47UF	20.00%	16V
C005	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C006	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C007	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C008	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C009	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C010	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C011	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C012	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C014	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C016	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C017	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C018	1-126-935-11	ELECT	470UF	20.00%	10V
C020	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C022	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C024	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C025	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C026	1-128-551-11	ELECT	22UF	20.00%	25V
C027	1-126-964-11	ELECT	10UF	20.00%	50V
C028	1-126-933-11	ELECT	100UF	20.00%	16V
C029	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C030	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C031	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C032	1-115-467-11	CERAMIC CHIP	0.22UF	10.00%	10V
C033	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C034	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C035	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C036	1-128-551-11	ELECT	22UF	20.00%	25V
C043	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C103	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C104	1-126-933-11	ELECT	100UF	20.00%	16V
C105	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C106	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C107	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C108	1-126-933-11	ELECT	100UF	20.00%	16V
C109	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C110	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C111	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C112	1-126-933-11	ELECT	100UF	20.00%	16V
C113	1-126-947-11	ELECT	47UF	20.00%	16V
C114	1-126-967-11	ELECT	47UF	20.00%	50V
C105	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C118	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C124	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C125	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C126	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C127	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C128	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C129	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C130	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C131	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C132	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C133	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C134	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C135	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C136	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C137	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C138	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C139	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C141	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C142	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C143	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C144	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C145	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C146	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C147	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C148	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C151	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C154	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C162	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C163	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C164	1-126-390-11	ELECT CHIP	22UF	20.00%	6.3V
C165	1-124-779-11	ELECT CHIP	10UF	20.00%	16V
C166	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C176	1-126-933-11	ELECT	100UF	20.00%	16V
C178	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C301	1-126-767-11	ELECT	1000UF	20.00%	16V
C326	1-126-964-11	ELECT	10UF	20.00%	50V
C1212	1-126-943-11	ELECT	2200UF	20.00%	25V
C1213	1-126-943-11	ELECT	2200UF	20.00%	25V
C1214	1-126-055-11	ELECT	470UF	20.00%	50V
C1215	1-126-055-11	ELECT	470UF	20.00%	50V
C1216	1-126-943-11	ELECT	2200UF	20.00%	25V
C1217	1-126-943-11	ELECT	2200UF	20.00%	25V

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C1219	1-126-961-11	ELECT	2.2UF	20.00% 50V
C1220	1-126-961-11	ELECT	2.2UF	20.00% 50V
C1221	1-126-933-11	ELECT	100UF	20.00% 16V
C1241	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1242	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1243	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1244	1-110-617-51	ELECT	2200UF	20.00% 50V
C1245	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1246	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C1247	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1248	1-110-617-51	ELECT	2200UF	20.00% 50V
C1249	1-163-009-91	CERAMIC CHIP	0.001UF	10.00% 50V
C1251	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C1252	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1253	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1255	1-163-009-91	CERAMIC CHIP	0.001UF	10.00% 50V
C1256	1-137-194-81	FILM	0.47UF	5.00% 50V
C1258	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1259	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1260	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C1262	1-163-009-91	CERAMIC CHIP	0.001UF	10.00% 50V
C1263	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C1264	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C1265	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1267	1-163-009-91	CERAMIC CHIP	0.001UF	10.00% 50V
C1268	1-137-194-81	FILM	0.47UF	5.00% 50V
C1270	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1271	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1272	1-126-941-11	ELECT	470UF	20.00% 25V
C1273	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1275	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1276	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V
C1277	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1279	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1281	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1282	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1283	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1284	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C1297	1-136-177-00	FILM	1UF	5.00% 50V
C1298	1-136-177-00	FILM	1UF	5.00% 50V
C1300	1-115-330-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1301	1-126-933-11	ELECT	100UF	20.00% 16V
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1303	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C2200	1-126-964-11	ELECT	10UF	20.00% 50V
C2201	1-126-964-11	ELECT	10UF	20.00% 50V
C2202	1-126-964-11	ELECT	10UF	20.00% 50V
C2203	1-126-963-11	ELECT	4.7UF	20.00% 50V
C2204	1-125-838-11	CERAMIC CHIP	2.2UF	10% 6.3V
C2205	1-125-838-11	CERAMIC CHIP	2.2UF	10% 6.3V
C2206	1-126-964-11	ELECT	10UF	20.00% 50V
C2209	1-126-968-11	ELECT	100UF	20.00% 50V
C2600	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2601	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2602	1-126-933-11	ELECT	100UF	20.00% 16V
C2603	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2604	1-126-933-11	ELECT	100UF	20.00% 16V
C2605	1-126-935-11	ELECT	470UF	20.00% 16V
C2606	1-110-563-11	CERAMIC CHIP	0.068UF	10.00% 16V
C2608	1-126-926-11	ELECT	1000UF	20.00% 10V
C2609	1-126-935-11	ELECT	470UF	20.00% 10V
C2610	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2611	1-126-934-11	ELECT	220UF	20.00% 10V
C2612	1-126-933-11	ELECT	100UF	20.00% 16V
C2613	1-126-933-11	ELECT	100UF	20.00% 16V
C2614	1-126-935-11	ELECT	470UF	20.00% 16V
C2615	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2616	1-126-933-11	ELECT	100UF	20.00% 16V
C2617	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2618	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2619	1-126-935-11	ELECT	470UF	20.00% 16V
C2620	1-128-953-31	ELECT	470UF	20% 25V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C2622	1-110-563-11	CERAMIC CHIP	0.068UF	10.00% 16V
C2623	1-126-926-11	ELECT	1000UF	20.00% 10V
C2624	1-126-935-11	ELECT	470UF	20.00% 16V
C2625	1-126-935-11	ELECT	470UF	20.00% 16V
C2626	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2627	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2628	1-126-933-11	ELECT	100UF	20.00% 16V
C2629	1-126-960-11	ELECT	1UF	20.00% 50V
C2630	1-126-920-51	ELECT	10000UF	20.00% 6.3V
C2631	1-126-920-51	ELECT	10000UF	20.00% 6.3V
C2633	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C2634	1-126-933-11	ELECT	100UF	20.00% 16V
C2635	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C3330	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C3331	1-126-933-11	ELECT	100UF	20.00% 16V
C3336	1-126-933-11	ELECT	100UF	20.00% 16V
C3338	1-162-962-11	CERAMIC CHIP	470PF	10.00% 50V
C3350	1-162-962-11	CERAMIC CHIP	470PF	10.00% 50V
C3351	1-162-962-11	CERAMIC CHIP	470PF	10.00% 50V
C3352	1-162-962-11	CERAMIC CHIP	470PF	10.00% 50V
C3353	1-126-933-11	ELECT	100UF	20.00% 16V
C3354	1-126-967-11	ELECT	47UF	20.00% 50V
C3355	1-126-947-11	ELECT	47UF	20.00% 16V

<CONNECTOR>

CN104	* 1-816-933-11	CONNECTOR(PLUG), BOARD TO BOARD 60P
CN401	* 1-816-070-11	CONNECTOR(RECEPTACLE), BOARD TO BOARD 60P
CN402	* 1-793-828-11	PIN, CONNECTOR 16P
CN502	* 1-785-303-11	CONNECTOR, DIN (RECEPTACLE) 64P
CN1100	* 1-816-598-11	PIN, CONNECTOR 12P
CN1108	* 1-785-304-11	CONNECTOR, DIN (RECEPTACLE) 64P
CN1112	1-695-915-11	TAB (CONTACT)
CN1113	1-695-915-11	TAB (CONTACT)
CN1116	1-695-915-11	TAB (CONTACT)
CN1117	*1-564-506-11	PLUG, CONNECTOR 3P
CN1118	*1-774-813-11	CONNECTOR, BOARD TO BOARD 7P
CN112	*1-793-493-11	CONNECTOR, BOARD TO BOARD 20P
CN1121	*1-774-813-11	CONNECTOR, BOARD TO BOARD 7P
CN1140	*1-793-495-11	CONNECTOR, BOARD TO BOARD 50P
CN1164	*1-564-510-11	PLUG , CONNECTOR 7P
CN1180	*1-785-304-11	CONNECTOR, DIN (RECEPTACLE) 64P
CN1190	*1-564-508-11	PLUG, CONNECTOR 5P
CN1195	*1-564-506-11	PLUG, CONNECTOR 3P
CN1196	*1-564-506-21	PLUG, CONNECTOR 3P
CN1201	*1-564-509-31	PLUG, CONNECTOR 6P
CN1293	*1-764-333-11	PLUG, CONNECTOR 10P
CN4301	* 1-793-498-11	CONNECTOR(PLUG), BOARD TO BOARD 50P
CN4302	*1-564-518-11	PLUG, CONNECTOR 3P
CN4305	*1-564-525-11	PLUG, CONNECTOR 10P

<DIODE>

D001	8-719-081-97	DIODE MMDL914T1
D002	8-719-058-24	DIODE RB501V-40TE-17
D003	8-719-081-97	DIODE MMDL914T1
D007	8-719-158-18	DIODE RD5.6SB3-T1
D009	8-719-158-18	DIODE RD5.6SB3-T1
D011	8-719-510-02	DIODE D1NS4-TR
D013	8-719-158-18	DIODE RD5.6SB3-T1
D014	8-719-110-72	DIODE RD30ES-T1B2
D100	8-719-081-97	DIODE MMDL914T1
D101	8-719-024-97	DIODE HN1D03FU-TE85R
D102	8-719-024-97	DIODE HN1D03FU-TE85R
D201	8-719-024-97	DIODE HN1D03FU-TE85R
D301	8-719-081-97	DIODE MMDL914T1
D302	8-719-081-97	DIODE MMDL914T1
D317	8-719-081-97	DIODE MMDL914T1
D1205	8-719-158-35	DIODE RD9.1SB-T1
D1208	8-719-081-97	DIODE MMDL914T1
D1209	8-719-081-97	DIODE MMDL914T1

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REF. NO.	PART NO.	DESCRIPTION	REMARK
D1300	8-719-158-18	DIODE RD5.6SB3-T1	
D1301	8-719-083-66	DIODE UDZSTE-1718B	
D2200	8-719-158-35	DIODE RD9.1SB-T1	
D2201	8-719-158-35	DIODE RD9.1SB-T1	
D2600	8-719-500-70	DIODE D5S4M	
D2601	8-719-500-70	DIODE D5S4M	
D2602	8-719-043-76	DIODE AK04WS	
D2603	8-719-037-05	DIODE RD7.5SB-T1	
D2604	8-719-157-91	DIODE RD3.0SB-T1	
		<FERRITE BEAD>	
FB001	1-414-233-22	FERRITE 0UH	
FB002	1-414-233-22	FERRITE 0UH	
FB003	1-414-233-22	FERRITE 0UH	
FB004	1-414-233-22	FERRITE 0UH	
FB005	1-414-233-22	FERRITE 0UH	
FB006	1-414-233-22	FERRITE 0UH	
FB007	1-414-233-22	FERRITE 0UH	
FB008	1-414-233-22	FERRITE 0UH	
FB101	1-414-921-11	FERRITE 0UH	
FB102	1-414-921-11	FERRITE 0UH	
FB103	1-414-921-11	FERRITE 0UH	
FB104	1-414-921-11	FERRITE 0UH	
FB106	1-500-451-11	FERRITE 0UH	
FB109	1-414-921-11	FERRITE 0UH	
FB110	1-414-921-11	FERRITE 0UH	
FB111	1-414-021-11	FERRITE 0UH	
FB120	1-414-921-11	FERRITE 0UH	
FB124	1-414-921-11	FERRITE 0UH	
FB121	1-414-921-11	FERRITE 0UH	
FB122	1-414-921-11	FERRITE 0UH	
FB123	1-414-921-11	FERRITE 0UH	
FB137	1-414-921-11	FERRITE 0UH	
FB141	1-414-921-11	FERRITE 0UH	
FB143	1-414-921-11	FERRITE 0UH	
FB149	1-414-921-11	FERRITE 0UH	
FB1205	1-406-661-21	INDUCTOR 22UH	
FB1206	1-406-661-21	INDUCTOR 22UH	
FB1207	1-410-397-21	FERRITE 1.1UH	
FB1208	1-410-397-21	FERRITE 1.1UH	
FB1300	1-216-295-91	SHORT CHIP 0	
		<FILTER>	
FL001	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC001	8-752-931-40	IC CXP961048-004Q	
IC002	6-702-474-01	IC MM1482BFBE	
IC003	8-759-682-41	IC M24C32-WMN6T(A)	
IC005	8-759-450-47	IC BA05T	
IC100	8-759-042-02	IC S-80743AL-A7-T1	
IC101	6-702-978-01	IC MD2406	
IC102	6-802-277-11	IC SST39VF800A70E-11300-T	
IC104	8-759-460-72	IC BA033FP-E2	
IC106	8-759-661-55	IC 24LC21AT/SN	
IC107	8-759-331-27	IC MM1096AFF	
IC108	8-702-511-11	IC MT48LC8M16A2TG-75-Y95W	
IC111	8-759-832-05	IC BA18BC0FP-E2	
IC121	8-752-932-05	IC CXP86608-001R	
IC1203	8-759-553-45	IC TDA7481	
IC1204	8-759-553-45	IC TDA7481	
IC2200	8-759-745-64	IC NJM4560M-TE2	
IC2600	8-759-394-36	IC BA09T	
IC2601	8-759-640-19	IC PQ1CG2032FZ	
IC2602	8-759-513-71	IC PQ05RF21	
IC2603	8-759-640-19	IC PQ1CG2032FZ	
IC2604	8-759-644-37	IC PQ5EV3	
IC2605	8-759-394-36	IC BA09T	
IC2606	8-759-098-24	IC PQ30RV11	
IC2607	8-759-394-36	IC BA09T	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CHIP CONDUCTOR>	
JR101	1-216-864-11	SHORT CHIP 0	
JR102	1-216-864-11	SHORT CHIP 0	
JR107	1-216-864-11	SHORT CHIP 0	
JR112	1-216-864-11	SHORT CHIP 0	
JR114	1-216-864-11	SHORT CHIP 0	
JR1111	1-216-864-11	SHORT CHIP 0	
JR1112	1-216-864-11	SHORT CHIP 0	
JR1301	1-216-864-11	SHORT CHIP 0	
		<COIL>	
L001	1-414-856-11	INDUCTOR 10UH	
L002	1-414-856-11	INDUCTOR 10UH	
L101	1-414-856-11	INDUCTOR 10UH	
L102	1-414-856-11	INDUCTOR 10UH	
L103	1-414-856-11	INDUCTOR 10UH	
L104	1-414-856-11	INDUCTOR 10UH	
L105	1-414-856-11	INDUCTOR 10UH	
L106	1-469-555-21	INDUCTOR 10UH	
L107	1-469-561-21	INDUCTOR 10UH	
L112	1-469-555-21	INDUCTOR 10UH	
L1201	1-414-187-11	INDUCTOR 47UH	
L1202	1-416-857-11	INDUCTOR 65UH	
L1203	1-416-857-11	INDUCTOR 65UH	
L1204	1-416-966-11	INDUCTOR 30UH	
L1205	1-416-966-11	INDUCTOR 30UH	
L1300	1-414-856-11	INDUCTOR 10UH	
L1301	1-414-856-11	INDUCTOR 10UH	
L2600	1-419-249-11	INDUCTOR 15UH	
L2601	1-419-249-11	INDUCTOR 15UH	
L2602	1-412-525-31	INDUCTOR 10UH	
L2603	1-412-525-31	INDUCTOR 10UH	
L2604	1-412-525-31	INDUCTOR 10UH	
L2605	1-419-249-11	INDUCTOR 15UH	
L2606	1-419-249-11	INDUCTOR 15UH	
L2607	1-412-525-31	INDUCTOR 10UH	
L3302	1-414-856-11	INDUCTOR 10UH	
L3303	1-414-856-11	INDUCTOR 10UH	
L3304	1-414-856-11	INDUCTOR 10UH	
L3305	1-414-856-11	INDUCTOR 10UH	
L3306	1-414-856-11	INDUCTOR 10UH	
		<IC LINK>	
PS1201	⚠1-532-686-21	LINK, IC 2.7A/150V	
PS1202	⚠1-532-686-21	LINK, IC 2.7A/150V	
PS1203	⚠1-532-686-21	LINK, IC 2.7A/150V	
PS1204	⚠1-532-686-21	LINK, IC 2.7A/150V	
		<TRANSISTOR>	
Q001	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q002	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q003	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q004	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q005	8-729-907-00	TRANSISTOR DTC114EUA-T106	
Q006	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q007	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q008	8-729-907-00	TRANSISTOR DTC114EUA-T106	
Q009	8-729-028-23	TRANSISTOR 2SJ344(TE85L)	
Q101	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q103	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q105	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q110	8-729-900-53	TRANSISTOR DTC144EKA-T146	
Q116	8-729-900-53	TRANSISTOR DTC144EKA-T146	
Q201	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q202	8-729-028-28	TRANSISTOR 2SK2063(TE5L)	
Q203	8-729-028-28	TRANSISTOR 2SK2063(TE5L)	
Q301	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q302	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q105	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q304	8-729-905-35	TRANSISTOR 2SC4081T106R	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1205	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1206	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q1207	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q1209	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q1210	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q1211	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q2200	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2201	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2600	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q2602	8-729-905-35	TRANSISTOR 2SC4081T106R	
Q2603	8-729-907-00	TRANSISTOR DTC114EUA-T106	
Q2604	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	
Q3300	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR	

<RESISTOR>

R001	1-216-813-11	METAL CHIP	220	5%	1/10W
R002	1-216-813-11	METAL CHIP	220	5%	1/10W
R003	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R004	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R005	1-216-835-11	METAL CHIP	15K	5%	1/10W
R006	1-216-835-11	METAL CHIP	15K	5%	1/10W
R007	1-216-813-11	METAL CHIP	220	5%	1/10W
R009	1-216-809-11	METAL CHIP	100	5%	1/10W
R010	1-216-809-11	METAL CHIP	100	5%	1/10W
R011	1-216-821-11	METAL CHIP	1K	5%	1/10W
R012	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R013	1-216-821-11	METAL CHIP	1K	5%	1/10W
R014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R015	1-216-821-11	METAL CHIP	1K	5%	1/10W
R016	1-216-821-11	METAL CHIP	1K	5%	1/10W
R017	1-216-821-11	METAL CHIP	1K	5%	1/10W
R018	1-216-813-11	METAL CHIP	220	5%	1/10W
R019	1-216-814-11	METAL CHIP	270	5%	1/10W
R020	1-216-813-11	METAL CHIP	220	5%	1/10W
R021	1-216-809-11	METAL CHIP	100	5%	1/10W
R022	1-216-821-11	METAL CHIP	1K	5%	1/10W
R023	1-216-821-11	METAL CHIP	1K	5%	1/10W
R024	1-216-818-11	METAL CHIP	560	5%	1/10W
R025	1-216-811-11	METAL CHIP	150	5%	1/10W
R026	1-216-821-11	METAL CHIP	1K	5%	1/10W
R027	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R028	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R029	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R030	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R031	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R032	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R033	1-216-809-11	METAL CHIP	100	5%	1/10W
R034	1-216-813-11	METAL CHIP	220	5%	1/10W
R035	1-216-813-11	METAL CHIP	220	5%	1/10W
R036	1-216-809-11	METAL CHIP	100	5%	1/10W
R038	1-216-809-11	METAL CHIP	100	5%	1/10W
R039	1-216-809-11	METAL CHIP	100	5%	1/10W
R040	1-216-821-11	METAL CHIP	1K	5%	1/10W
R041	1-216-809-11	METAL CHIP	100	5%	1/10W
R042	1-216-821-11	METAL CHIP	1K	5%	1/10W
R043	1-216-809-11	METAL CHIP	100	5%	1/10W
R044	1-216-809-11	METAL CHIP	100	5%	1/10W
R045	1-216-821-11	METAL CHIP	1K	5%	1/10W
R046	1-216-813-11	METAL CHIP	220	5%	1/10W
R047	1-216-809-11	METAL CHIP	100	5%	1/10W
R048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R049	1-216-813-11	METAL CHIP	220	5%	1/10W
R050	1-216-809-11	METAL CHIP	100	5%	1/10W
R052	1-216-809-11	METAL CHIP	100	5%	1/10W
R054	1-216-813-11	METAL CHIP	220	5%	1/10W
R055	1-216-813-11	METAL CHIP	220	5%	1/10W
R056	1-216-864-11	SHORT CHIP	0		
R057	1-216-864-11	SHORT CHIP	0		
R058	1-216-813-11	METAL CHIP	220	5%	1/10W
R059	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R060	1-216-813-11	METAL CHIP	220	5%	1/10W
R061	1-216-813-11	METAL CHIP	220	5%	1/10W
R062	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R063	1-216-813-11	METAL CHIP	220	5%	1/10W
R064	1-216-821-11	METAL CHIP	1K	5%	1/10W
R065	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R067	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R068	1-216-821-11	METAL CHIP	1K	5%	1/10W
R070	1-216-813-11	METAL CHIP	220	5%	1/10W
R071	1-216-821-11	METAL CHIP	1K	5%	1/10W
R072	1-216-813-11	METAL CHIP	220	5%	1/10W
R073	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R074	1-216-813-11	METAL CHIP	220	5%	1/10W
R077	1-216-821-11	METAL CHIP	1K	5%	1/10W
R078	1-216-813-11	METAL CHIP	220	5%	1/10W
R079	1-216-813-11	METAL CHIP	220	5%	1/10W
R080	1-216-821-11	METAL CHIP	1K	5%	1/10W
R082	1-216-821-11	METAL CHIP	1K	5%	1/10W
R083	1-216-813-11	METAL CHIP	220	5%	1/10W
R084	1-216-833-11	METAL CHIP	10K	5%	1/10W
R085	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R087	1-216-864-11	SHORT CHIP	0		
R088	1-216-864-11	SHORT CHIP	0		
R089	1-216-809-11	METAL CHIP	100	5%	1/10W
R090	1-216-809-11	METAL CHIP	100	5%	1/10W
R091	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R092	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R093	1-216-821-11	METAL CHIP	1K	5%	1/10W
R094	1-216-821-11	METAL CHIP	1K	5%	1/10W
R095	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R097	1-216-813-11	METAL CHIP	220	5%	1/10W
R098	1-216-864-11	SHORT CHIP	0		
R099	1-216-809-11	METAL CHIP	100	5%	1/10W
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-797-11	METAL CHIP	10	5%	1/10W
R105	1-216-864-11	SHORT CHIP	0		
R109	1-216-817-11	METAL CHIP	470	5%	1/10W
R110	1-216-818-11	METAL CHIP	560	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-216-809-11	METAL CHIP	100	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R116	1-216-805-11	METAL CHIP	47	5%	1/10W
R117	1-216-805-11	METAL CHIP	47	5%	1/10W
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-809-11	METAL CHIP	100	5%	1/10W
R122	1-216-809-11	METAL CHIP	100	5%	1/10W
R123	1-216-809-11	METAL CHIP	100	5%	1/10W
R124	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R126	1-216-817-11	METAL CHIP	470	5%	1/10W
R127	1-216-833-11	METAL CHIP	10K	5%	1/10W
R128	1-216-864-11	SHORT CHIP	0		
R129	1-216-712-11	SHORT CHIP	6.8K	0.5%	1/10W
R136	1-216-797-11	METAL CHIP	10	5%	1/10W
R137	1-216-864-11	SHORT CHIP	0		
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W
R144	1-216-809-11	METAL CHIP	100	5%	1/10W
R145	1-216-809-11	METAL CHIP	100	5%	1/10W
R148	1-216-839-11	METAL CHIP	33K	5%	1/10W
R149	1-216-839-11	METAL CHIP	33K	5%	1/10W
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-809-11	METAL CHIP	100	5%	1/10W
R158	1-216-864-11	SHORT CHIP	0		
R161	1-216-801-11	METAL CHIP	22	5%	1/10W
R162	1-216-805-11	METAL CHIP	47	5%	1/10W
R164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R179	1-216-809-11	METAL CHIP	100	5%	1/10W
R180	1-216-812-11	METAL CHIP	180	5%	1/10W
R181	1-216-813-11	METAL CHIP	220	5%	1/10W

A

REF. NO.	PART NO.	DESCRIPTION		REMARK	
R183	1-216-809-11	METAL CHIP	100	5%	1/10W
R184	1-216-849-11	METAL CHIP	220K	5%	1/10W
R185	1-216-857-11	METAL CHIP	1M	5%	1/10W
R186	1-216-864-11	SHORT CHIP	0		
R189	1-216-864-11	SHORT CHIP	0		
R190	1-216-864-11	SHORT CHIP	0		
R201	1-216-865-11	SHORT CHIP	100K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-845-11	METAL CHIP	100K	5%	1/10W
R209	1-216-845-11	METAL CHIP	100K	5%	1/10W
R213	1-216-830-11	METAL CHIP	200	0.5%	1/10W
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R218	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-809-11	METAL CHIP	100	5%	1/10W
R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R232	1-216-709-11	METAL CHIP	5.1K	0.5%	1/10W
R238	1-216-864-11	SHORT CHIP	0		
R239	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-216-833-11	METAL CHIP	10K	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R287	1-216-833-11	METAL CHIP	10K	5%	1/10W
R288	1-216-797-11	METAL CHIP	10	5%	1/10W
R290	1-216-797-11	METAL CHIP	10	5%	1/10W
R301	1-216-853-11	METAL CHIP	470K	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W
R303	1-216-841-11	METAL CHIP	47K	5%	1/10W
R304	1-216-841-11	METAL CHIP	47K	5%	1/10W
R361	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R362	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R264	1-216-864-11	SHORT CHIP	0		
R1204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1205	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1206	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1236	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1237	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1238	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1239	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1240	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1244	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1246	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1247	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1252	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1260	1-216-037-00	RES-CHIP	330	5%	1/10W
R1261	1-216-037-00	RES-CHIP	330	5%	1/10W
R1264	1-216-817-11	METAL CHIP	470	5%	1/10W
R1265	1-216-817-11	METAL CHIP	470	5%	1/10W
R1266	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1267	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1269	1-216-809-11	METAL CHIP	100	5%	1/10W
R1270	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1271	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1272	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1273	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1275	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1276	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1277	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1280	1-216-037-00	RES-CHIP	330	5%	1/10W
R1281	1-216-037-00	RES-CHIP	330	5%	1/10W
R1286	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1287	1-216-037-00	RES-CHIP	330	5%	1/10W
R1288	1-216-037-00	RES-CHIP	330	5%	1/10W
R1289	1-216-037-00	RES-CHIP	330	5%	1/10W
R1290	1-216-037-00	RES-CHIP	330	5%	1/10W
R1300	1-216-813-11	METAL CHIP	220	5%	1/10W
R1301	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1303	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1304	1-216-817-11	METAL CHIP	470	5%	1/10W
R2200	1-216-807-11	METAL CHIP	68	5%	1/10W
R2201	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2203	1-216-807-11	METAL CHIP	68	5%	1/10W
R2204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2205	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2206	1-216-855-11	METAL CHIP	680K	5%	1/10W
R2207	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2208	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2209	1-216-855-11	METAL CHIP	680K	5%	1/10W
R2210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2211	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2213	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2214	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2215	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2217	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2600	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2601	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R2602	1-218-846-11	METAL CHIP	910	0.5%	1/10W
R2603	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R2604	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R2605	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2606	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R2607	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R2608	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R2609	1-218-850-11	METAL CHIP	1.3K	0.5%	1/10W
R2610	1-218-837-11	METAL CHIP	390	0.5%	1/10W
R2611	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2612	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2613	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2614	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2615	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3212	1-216-864-11	SHORT CHIP	0		
R3213	1-216-864-11	SHORT CHIP	0		
R3214	1-216-864-11	SHORT CHIP	0		
R3300	1-216-818-11	METAL CHIP	560	5%	1/10W
R3320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3323	1-216-809-11	METAL CHIP	100	5%	1/10W
R3334	1-216-809-11	METAL CHIP	100	5%	1/10W
R3362	1-216-809-11	METAL CHIP	100	5%	1/10W
R3374	1-216-864-11	SHORT CHIP	0		

<VARIABLE RESISTOR>

RV3300	1-241-761-11	RES, ADJ, CARBON 1K

<TUNER>

TU101	8-598-452-20	TUNER, FSS BTF-WG442
TU3301	8-598-450-10	TUNER, FSS BTF-LG434

<CRYSTAL>

X001	1-781-282-51	VIBRATOR, CERAMIC
X101	1-795-725-51	VIBRATOR, CRYSTAL(SMD)
X102	1-795-313-51	VIBRATOR, CERAMIC

D

REF. NO.	PART NO.	DESCRIPTION			REMARK
**********					
	* A-1300-849-A	D BOARD, COMPLETE (KV-HS34M90)			
		**********			
	* A-1300-873-A	D BOARD, COMPLETE (KV-HS38M61/M90/M91)			
		**********			
	* A-1300-900-A	D BOARD, COMPLETE (KV-HS29M90)			
		**********			
	* A-1300-909-A	D BOARD, COMPLETE (KV-HS34M61/M91)			
		**********			
	* A-1300-974-A	D BOARD, COMPLETE (KV-HS29M61/M91)			
		**********			
	3-710-578-01	COVER, VOLUME, 6 MOLD			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			
		<CAPACITOR>			
C5001	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5002	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C5003	1-162-967-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C5004	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C5005	1-126-235-11	ELECT	100UF	20.00%	6.3V
C5006	1-126-964-11	ELECT	10UF	20.00%	50V
C5007	1-126-941-11	ELECT	470UF	20.00%	25V
C5008	1-104-665-11	ELECT	100UF	20.00%	25V
C5009	1-126-941-11	ELECT	470UF	20.00%	25V
C5010	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5011	1-107-641-11	ELECT	220UF	20.00%	160V
C5012	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C5013	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5014	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5016	1-136-171-00	FILM	0.33UF	5.00%	50V
C5017	1-164-677-11	CERAMIC CHIP	0.033UF	10.00%	16V
C5018	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5019	1-126-968-11	ELECT	100UF	20.00%	50V
C5020	1-104-665-11	ELECT	100UF	20.00%	25V
C5021	1-126-964-11	ELECT	10UF	20.00%	50V
C5022	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C5023	1-107-956-11	ELECT	220UF	20.00%	160V
C5027	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5028	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5030	1-162-965-11	CERAMIC CHIP	0.0015UF	10.00%	50V
C5031	1-162-965-11	CERAMIC CHIP	0.0015UF	10.00%	50V
C5032	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C5033	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5034	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C5035	1-104-665-11	ELECT	100UF	20.00%	25V
C5036	1-126-767-11	ELECT	1000UF	20.00%	16V
C5037	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5038	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5039	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C5040	1-126-926-11	ELECT	1000UF	20.00%	10V
C5041	1-126-926-11	ELECT	1000UF	20.00%	10V
C5044	1-164-360-11	CERAMIC CHIP	0.1UF		16V
C5045	1-164-360-11	CERAMIC CHIP	0.1UF		16V
C5046	1-162-971-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5047	1-162-971-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5049	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5050	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5051	1-164-360-11	CERAMIC CHIP	0.1UF		16V
C5052	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5053	1-137-401-11	MYLAR	0.22UF	5.00%	100V
C5054	1-104-666-11	ELECT	220UF	20.00%	25V
C5055	1-126-964-11	ELECT	10UF	20.00%	50V
C5056	1-162-318-11	CERAMIC	0.001UF	10.00%	500V
C5057	1-117-768-91	CERAMIC	470PF	10.00%	2KV
C5058	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C5059	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C5060	1-137-417-11	MYLAR	0.0047UF	10.00%	200V
C5061	1-117-839-11	FILM	9100PF	3.00%	1.5KV
C5062	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5064	1-115-519-11	FILM	0.56UF (KV-HS34/38)	5.00%	250V
C5064	1-117-664-11	FILM	0.27UF (KV-HS29)	5.00%	250V
C5065	1-136-124-11	FILM	0.56UF	5.00%	400V
C5066	1-109-921-11	CERAMIC	0.0015UF	10.00%	500V
C5069	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5070	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5071	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5072	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5073	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5074	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5075	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5076	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5077	1-164-360-11	CERAMIC CHIP	0.1UF		16V
C5079	1-162-965-11	CERAMIC CHIP	0.0015UF	10.00%	50V
C5082	1-117-839-11	FILM	9100PF (KV-HS34/38)	3.00%	1.5KV
C5084	1-126-941-11	ELECT	470UF	20.00%	25V
C5086	1-126-941-11	ELECT	470UF	20.00%	25V
C5501	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5502	1-126-941-11	ELECT	470UF	20.00%	25V
C5503	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C5504	1-126-947-11	ELECT	47UF	20.00%	25V
C5505	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5506	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C5507	1-129-708-61	FILM	0.0033UF	5.00%	630V
C5511	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5512	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C5513	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C5514	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5515	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5516	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5517	1-129-716-00	FILM	0.015UF	5.00%	400V
C5518	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5519	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C5520	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5521	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5522	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C5523	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5524	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5526	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5527	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5528	1-102-002-00	CERAMIC	680PF	10.00%	500V
C5529	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C5530	1-136-167-00	FILM	0.15UF	5.00%	50V
C5534	1-126-947-11	ELECT	47UF	20.00%	25V
C5542	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5548	1-137-194-81	FILM	0.47UF	5.00%	50V
C5598	1-126-947-11	ELECT	47UF	20.00%	25V
C5609	1-104-665-11	ELECT	100UF	20.00%	25V
C5611	1-104-665-11	ELECT	100UF	20.00%	25V
C5612	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5613	1-126-947-11	ELECT	47UF	20.00%	25V
C5623	1-104-665-11	ELECT	100UF	20.00%	25V
C5626	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C6100	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6101	1-107-680-91	ELECT	22UF	20.00%	450V
C6102	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6103	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C6104	1-164-357-11	CERAMIC CHIP	0.001UF	2.00%	50V
C6105	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C6106	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C6107	1-137-605-11	MYLAR	0.01UF	10.00%	250V
C6108	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6109	1-126-815-91	ELECT (KV-HS29M61/M91, KV-HS34M61/M91)	470UF	20.00%	50V
C6110	1-164-357-11	CERAMIC CHIP	0.001UF	2.00%	50V
C6111	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6113	1-126-965-91	ELECT	22UF	20.00%	50V
C6114	1-126-933-11	ELECT	100UF	20.00%	16V
C6116	1-113-976-11	MYLAR	0.47UF	20.00%	250V

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C6117	1-126-967-11	ELECT	47UF	20.00% 50V
C6222	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C6223	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C6224	1-126-947-11	ELECT	47UF	20.00% 16V
C6225	1-126-964-11	ELECT	10UF	20.00% 50V
C6227	1-130-777-00	MYLAR	0.1UF	5.00% 63V
C6228	1-130-777-00	MYLAR	0.1UF	5.00% 63V
C6229	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C6230	1-126-947-11	ELECT	47UF	20.00% 25V
C6334	1-126-940-11	ELECT	330UF	20.00% 25V
C6502	1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6503	1-126-967-11	ELECT	47UF	20.00% 50V
C6504	1-126-967-11	ELECT	47UF	20.00% 50V
C6507	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C6508	1-126-947-11	ELECT	47UF	20.00% 25V
C6510	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C6511	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C6513	1-126-940-11	ELECT	330UF	20.00% 25V
C6514	1-126-767-11	ELECT	1000UF	20.00% 16V
C6515	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C6516	1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6517	1-126-963-11	ELECT	4.7UF	20.00% 50V
C6518	1-136-479-11	FILM	0.001UF	2.00% 50V
C6519	1-126-964-11	ELECT	10UF	20.00% 50V
C6525	1-162-115-00	CERAMIC	330PF	10.00% 1KV
C6526	1-162-115-00	CERAMIC	330PF	10.00% 1KV
C6532	1-100-313-91	FILM	0.1UF	3% 800V
C6549	1-126-969-11	ELECT	220UF	20.00% 50V
C6550	1-126-968-11	ELECT	100UF	20.00% 50V
C6558	1-126-967-11	ELECT	47UF	20.00% 50V
C6605	1-165-908-91	CERAMIC CHIP	1UF	10% 10V
C6606	1-127-715-91	CERAMIC CHIP	0.22UF	10% 16V
C6607	1-119-887-51	CERAMIC	0.001UF	10.00% 250V
C6608	1-119-887-51	CERAMIC	0.001UF	10.00% 250V
C6609	1-115-466-91	ELECT	1000UF	20.00% 16V
C6610	1-113-976-11	MYLAR	0.47UF	20.00% 250V
C6613	1-161-830-00	CERAMIC	0.0047UF	99% 500V
C6614	1-161-830-00	CERAMIC	0.0047UF	500V
C6615	1-137-906-31	ELECT	680UF	20% 16V
C6616	1-128-950-31	ELECT	1000UF	20% 16V
C6617	1-161-830-00	CERAMIC	0.0047UF	500V
C6618	1-131-970-11	ELECT	1500UF	20% 25V
C6619	1-161-830-00	CERAMIC	0.0047UF	99% 500V
C6620	1-131-970-11	ELECT	1500UF	20% 25V
C6621	1-137-750-91	ELECT	1500UF	20.00% 250V
		(KV-HS29M61/M91, KV-HS34M61/M91)		
C6622	1-137-750-91	ELECT	1500UF	20.00% 250V
		(KV-HS29M61/M91, KV-HS34M61/M91)		
C6627	1-119-886-51	CERAMIC CHIP	470PF	10.00% 250V
C6629	1-125-906-11	ELECT	560UF	20.00% 450V
		(KV-HS29M90, KV-HS34M90, KV-HS38M61/M90/M91)		
C6653	1-164-227-11	CERAMIC CHIP	0.022UF	10.00% 25V
C6660	1-126-960-11	ELECT	1UF	20.00% 50V
C6680	1-107-960-11	ELECT	0.47UF	20.00% 450V
		(KV-HS28M61/M91, KV-HS34M61/M91)		
C6686	1-126-960-11	ELECT	1UF	20.00% 50V
C6687	1-107-662-11	ELECT	22UF	20.00% 250V
C6688	1-123-024-21	ELECT	33UF	160V
C6693	1-131-976-11	ELECT	820UF	20% 25V
C6694	1-131-976-11	ELECT	820UF	20% 25V
C8001	1-126-964-11	ELECT	10UF	20.00% 50V
C8002	1-126-964-11	ELECT	10UF	20.00% 50V
C8003	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C8004	1-130-338-61	FILM	0.01UF	5.00% 630V
C8005	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C8006	1-126-960-11	ELECT	1UF	20.00% 50V
C8007	1-162-971-11	CERAMIC CHIP	0.001UF	10.00% 50V
C8010	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C8011	1-104-665-11	ELECT	100UF	20.00% 25V
C8012	1-126-947-11	ELECT	47UF	20.00% 25V
C8016	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C8017	1-126-964-11	ELECT	10UF	20.00% 50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C8020	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C8021	1-162-971-11	CERAMIC CHIP	0.001UF	10.00% 50V
C8024	1-126-967-11	ELECT	47UF	20.00% 50V
C8025	1-126-947-11	ELECT	47UF	20.00% 25V
C8027	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C8028	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C8030	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C8031	1-128-551-11	ELECT	22UF	20.00% 25V
C8032	1-130-016-11	FILM	680PF	2.00% 50V
C8033	1-126-964-11	ELECT	10UF	20.00% 50V
C8035	1-162-115-00	CERAMIC	330PF	10.00% 1KV
C8036	1-162-115-00	CERAMIC	330PF	10.00% 1KV
C8037	1-135-946-21	FILM	47000PF	3% 800V
C8038	1-136-203-11	MYLAR	0.01UF	5.00% 630V
C8040	1-126-969-11	ELECT	220UF	20.00% 25V
C8041	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C8042	1-136-189-00	MYLAR	0.1UF	10.00% 250V
C8045	1-130-471-00	MYLAR	0.001UF	5.00% 50V
C8046	1-162-129-00	CERAMIC (KV-HS34/38)	150PF	10.00% 2KV
C8046	1-162-558-00	CERAMIC (KV-HS29)	100PF	10.00% 2KV
C8047	1-162-129-00	CERAMIC	150PF	10.00% 2KV
C8048	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C8050	1-129-718-61	FILM	0.022UF	5.00% 630V
C8051	1-126-964-11	ELECT	10UF	20.00% 50V
C8055	1-130-061-91	FILM (KV-HS29)	0.0015UF	5.00% 630V
C8055	1-136-535-61	FILM (KV-HS34/38)	0.0018UF	5.00% 630V
C8056	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C8057	1-102-244-00	CERAMIC	220PF	10.00% 500V
C8058	1-137-194-81	FILM	0.47UF	5.00% 50V
C8059	1-126-947-11	ELECT	47UF	20.00% 25V
C8060	1-107-635-11	ELECT	4.7UF	20.00% 160V
C8063	1-135-945-21	FILM	10000PF	3% 800V
C8065	1-127-715-91	CERAMIC CHIP	0.22UF	10% 16V
C8073	1-162-962-11	CERAMIC CHIP	470PF	10.00% 50V
C8074	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C8075	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C8076	1-126-963-11	ELECT	4.7UF	20.00% 50V
C8077	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V

<CONNECTOR>

CN5001*	1-564-515-11	PLUG, CONNECTOR 12P
CN5002*	1-580-798-11	CONNECTOR PIN (DY) 6P
CN5003*	1-766-242-11	PIN, CONNECTOR (PC BOARD) 4P
CN5009*	1-764-334-11	PLUG, CONNECTOR 11P
CN5011*	1-764-333-11	PLUG, CONNECTOR 10P
CN5505*	1-564-512-11	PLUG, CONNECTOR 9P
CN5506*	1-564-511-11	PLUG, CONNECTOR 8P
CN5507*	1-564-505-21	PLUG, CONNECTOR 2P
CN5509*	1-564-512-11	PLUG, CONNECTOR 9P
CN5801*	1-564-508-11	PLUG, CONNECTOR 5P
CN6101*	1-764-334-11	PLUG, CONNECTOR 11P
CN6503*	1-564-509-11	PLUG, CONNECTOR 6P
CN6602*	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CN6603*	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
CN6604*	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P
CN6605*	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
CN8004	1-695-915-11	TAB (CONTACT)

<DIODE>

D5001	8-719-056-84	DIODE UDZSTE-177.5B
D5002	8-719-028-45	DIODE D2L20U-TA
D5003	8-719-028-45	DIODE D2L20U-TA
D5004	8-719-083-82	DIODE UDZS-TE17-12B
D5005	8-719-081-97	DIODE MMDL914T1
D5006	8-719-081-97	DIODE MMDL914T1
D5008	8-719-404-50	DIODE MA111-TX
D5009	8-719-404-50	DIODE MA111-TX
D5011	8-719-109-63	DIODE RD3.0ES-T1B2

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
D5012	8-719-031-34	DIODE RGP02-20EG23	
D5014	8-719-510-37	DIODE D5LC20U-4012	
D5016	8-719-028-45	DIODE D2L20U-F	
D5017	8-719-028-45	DIODE D2L20U-F	
D5018	8-719-083-83	DIODE UDZS-TE17-15B	
D5019	8-719-081-97	DIODE MMDL914T1	
D5023	8-719-066-36	DIODE FMQ-G5GS	
D5026	8-719-081-97	DIODE MMDL914T1	
D5027	8-719-081-97	DIODE MMDL914T1	
D5028	8-719-081-97	DIODE MMDL914T1	
D5031	8-719-404-50	DIODE MA111-TX	
D5032	8-719-081-97	DIODE MMDL914T1	
D5035	8-719-510-73	DIODE S3L20UF4	
D5036	8-719-028-45	DIODE D2L20U-F	
D5501	8-719-987-87	DIODE ERA82-004TP1	
D5504	8-719-081-97	DIODE MMDL914T1	
D5508	8-719-081-97	DIODE MMDL914T1	
D5509	8-719-911-19	DIODE 1SS119-25TD	
D5511	8-719-800-76	DIODE MA153-TX	
D5512	8-719-800-76	DIODE MA153-TX	
D5514	8-719-052-90	DIODE D1NL40-TR2	
D6007	8-719-911-19	DIODE 1SS119-25TD	
D6100	8-719-077-76	DIODE D2SB60A-F04	
D6101	8-719-110-49	DIODE MTZJ-T-77-18B	
D6102	8-719-082-03	DIODE MM3Z15VT1	
D6103	8-719-063-74	DIODE D1NL20U-TR2	
D6104	8-719-510-48	DIODE D1N20R-TA	
D6105	8-719-948-45	DIODE ERA22-08TP3	
D6108	8-719-063-73	DIODE D1NL20U (KV-HS28M61/M91, KV-HS34M61/M91)	
D6323	8-719-032-12	DIODE D1NS6-TR	
D6502	8-719-979-64	DIODE UF4005PKG23	
D6508	8-719-150-92	DIODE RD33FS-T1B2	
D6519	8-719-063-74	DIODE D1NL20U-TR2	
D6520	8-719-063-74	DIODE D1NL20U-TR2	
D6531	8-719-110-41	DIODE MTZJ-T-77-15B	
D6535	8-719-110-41	DIODE MTZJ-T-77-15B	
D6604	8-719-100-86	DIODE RD22EB2 (KV-HS29M61/M91, KV-HS34M61/M91)	
D6605	8-719-510-53	DIODE D4SB60L	
D6611	8-719-060-89	DIODE D4SBS6-F	
D6612	8-719-068-00	DIODE ERC04-06SE (KV-HS29M61/M91, KV-HS34M61/M91)	
D6613	8-719-068-00	DIODE ERC04-06SE (KV-HS29M61/M91, KV-HS34M61/M91)	
D6614	8-719-054-71	DIODE D5SC4M-F	
D6615	8-719-510-12	DIODE D10SC4M	
D6623	8-719-081-97	DIODE MMDL914T1	
D6635	8-719-083-66	DIODE UDZSTE-1718B	
D6642	8-719-081-97	DIODE MMDL914T1	
D6660	8-719-911-19	DIODE 1SS119-25TD	
D6661	8-719-110-30	DIODE RD12ES-T1B1	
D6662	8-719-052-90	DIODE D1NL40-TR2	
D6663	8-719-050-18	DIODE D4SBL20U	
D6668	8-719-060-89	DIODE D4SBS6-F	
D6653	8-719-068-00	DIODE ERC04-06SE (KV-HS28M61/M91, KV-HS34M61/M91)	
D8001	8-719-081-97	DIODE MMDL914T1	
D8002	8-719-110-41	DIODE MTZJ-T-77-15B	
D8003	8-719-081-97	DIODE MMDL914T1	
D8004	8-719-110-41	DIODE MTZJ-T-77-15B	
D8005	8-719-081-97	DIODE MMDL914T1	
D8006	8-719-063-74	DIODE D1NL20U-TR2	
D8009	8-719-083-83	DIODE UDZS-TE17-15B	
D8010	8-719-979-64	DIODE UF4005PKG23	
D8011	8-719-110-41	DIODE MTZJ-T-77-15B	
D8012	8-719-110-41	DIODE MTZJ-T-77-15B	
D8013	8-719-052-90	DIODE D1NL40-TA2	
D8014	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D8015	8-719-081-97	DIODE MMDL914T1	
D8016	8-719-948-45	DIODE ERA22-06AVRBT	
D8017	8-719-948-45	DIODE ERA22-06AVRBT	
D8018	8-719-055-45	DIODE ERA22-08TP3	
D8020	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D8022	8-719-063-74	DIODE D1NL20U-TR2	
D8023	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D8024	8-719-109-93	DIODE MTZJ-T-77-6.2B	
D8026	8-719-081-97	DIODE MMDL914T1	
D8030	8-719-083-66	DIODE UDZSTE-1718B	
D8034	8-719-921-63	DIODE MTZJ-T-77-7.5B	
D8035	8-719-081-97	DIODE MMDL914T1	

<FERRITE BEAD>

FB5001	1-410-397-21	FERRITE	1.1UH
FB5002	1-543-298-11	FERRITE	0UH
FB5003	1-410-397-21	FERRITE	1.1UH
FB6500	1-410-397-21	FERRITE	1.1UH
FB6501	1-410-397-21	FERRITE	1.1UH
FB6502	1-410-397-21	FERRITE	1.1UH
FB6504	1-410-397-21	FERRITE	1.1UH
FB6505	1-410-397-21	FERRITE	1.1UH
FB6506	1-410-397-21	FERRITE	1.1UH
FB6509	1-410-397-21	FERRITE	1.1UH
FB6601	1-410-397-21	FERRITE	1.1UH
FB6602	1-410-397-21	FERRITE	1.1UH
FB6603	1-410-397-21	FERRITE	1.1UH

<IC>

IC5001	8-759-701-01	IC NJM2904M(TE2)
IC5002	8-759-700-07	IC NJM2903M-TE2
IC5003	8-759-054-12	IC PQ09RF11
IC5004	8-759-696-71	IC STV9379
IC5005	8-759-803-42	IC LA6500-FA
IC5006	8-749-013-76	IC PQ6RD83B
IC5007	8-759-981-61	IC NJM2901M-TE2
IC5008	8-759-701-01	IC NJM2904M(TE2)
IC5504	6-701-598-01	IC UPC5023CS-184
IC5506	8-759-803-42	IC LA6500-FA
IC5511	8-759-701-01	IC NJM2904M(TE2)
IC5512	8-759-929-65	IC NJM79M12FA
IC5603	8-759-231-53	IC L7805CV
IC6204	8-759-803-42	IC LA6500-FA
IC6205	8-752-072-81	IC CXA1875AM
IC6205	8-752-072-94	IC CXA1875AM-T4
IC6500	8-759-513-72	IC PQ12RF11
IC6501	8-759-670-30	IC MCZ3001D
IC6503	8-749-012-13	IC DM-58
IC6608	8-761-541-11	SELECTION UNIT, RECTIFIER (KV-HS29M61/M91, KV-HS34M61/M91)
IC8001	8-759-700-07	IC NJM2903M-TE2
IC8002	8-759-670-30	IC MCZ3001D
IC8004	8-759-701-01	IC NJM2904M(TE2)
IC8005	8-759-198-31	IC UPC1093J-1-T
IC8006	8-759-700-07	IC NJM2903M-TE2

<CHIP CONDUCTOR>

JR5005	1-216-864-11	SHORT CHIP	0
JR8002	1-216-864-11	SHORT CHIP	0

<COIL>

L5001	1-412-525-31	INDUCTOR	10UH
L5003	1-428-932-11	INDUCTOR	4MH
L5005	1-424-997-11	COIL, HORIZONTAL LINEARITY (KV-HS29)	
L5005	1-824-874-21	COIL, HORIZONTAL LINEARITY (KV-HS34/38)	
L5504	1-419-738-11	INDUCTOR	10UH
L5505	1-406-989-21	INDUCTOR	10UH
L6101	1-412-533-21	INDUCTOR	47UH
L6501	1-412-525-31	INDUCTOR	10UH
L6502	1-412-525-31	INDUCTOR	10UH
L6504	1-412-525-31	INDUCTOR	10UH
L8002	1-428-950-11	INDUCTOR	125UH

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REF. NO.	PART NO.	DESCRIPTION	REMARK
L8005	1-406-986-21	INDUCTOR 3.3UH	
		<PHOTO COUPLER>	
PH6502⚠	8-749-016-81	PHOTO COUPLER PC123Y22	
PH8003⚠	8-749-016-81	PHOTO COUPLER PC123Y22	
		<IC LINK>	
PS6601⚠	1-576-288-31	RINK, IC 10A 90V	
PS6602⚠	1-576-288-31	RINK, IC 10A 90V	
PS6605⚠	1-576-288-31	RINK, IC 10A 90V	
		<TRANSISTOR>	
Q5001	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5002	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5003	8-729-027-97	TRANSISTOR IRFI9630G-LF	
Q5004	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q5005	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5009	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5010	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5011	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q5012	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5013	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5016	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q5017	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q5018	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5019	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5020	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5021	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5022	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5023	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5024	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5025	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5026	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5027	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5028	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q5030	6-550-077-01	TRANSISTOR 2SC5778-RB (KV-HS29)	
Q5030	6-550-213-01	TRANSISTOR 2SC5682-SONY-RB (KV-HS34/38)	
Q5031	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119	
Q5033	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5034	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5035	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5036	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5502	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
Q5504	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5505	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5506	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5507	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
Q5508	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q5509	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q5510	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5512	8-729-010-25	TRANSISTOR MSD601-RT1	
Q5513	8-729-010-25	TRANSISTOR MSD601-RT1	
Q6100	8-729-046-40	TRANSISTOR 2SK2663	
Q6101	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q6102	8-729-023-22	TRANSISTOR 2SD2114KT146	
Q6506	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q6507	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q6611	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q6613	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q6619	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q6620	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q6621	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW	
Q8003	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8004	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8007	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8009	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8010	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8011	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8013	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q8014	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q8015	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8016	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
Q8018	8-729-043-95	TRANSISTOR 2SC3840K	
Q8019	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8020	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8021	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8022	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8023	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8028	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8034	8-729-010-25	TRANSISTOR MSD601-RT1	
Q8035	8-729-010-05	TRANSISTOR MSB709-RT1	
		<RESISTOR>	
R5001	1-216-797-11	METAL CHIP 10 5% 1/10W	
R5002	1-216-813-11	METAL CHIP 220 5% 1/10W	
R5003	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5004	1-216-099-00	RES CHIP 120K 5% 1/10W	
R5005	1-216-813-11	METAL CHIP 220 5% 1/10W	
R5007	1-216-099-00	RES CHIP 120K 5% 1/10W	
R5008	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5009	1-216-099-00	RES CHIP 120K 5% 1/10W	
R5011	1-216-099-00	RES CHIP 120K 5% 1/10W	
R5012	1-218-724-11	METAL CHIP 22K 0.5% 1/16W	
R5013	1-243-511-71	METAL OXIDE 2.2 5% 3W	
R5014	1-218-699-11	METAL CHIP 2K 0.5% 1/16W (KV-HS29)	
R5014	1-218-702-11	METAL CHIP 2.7K 0.5% 1/16W (KV-HS34/38)	
R5016	1-218-754-11	METAL CHIP 120K 10.00% 1/16W	
R5017	1-208-832-11	METAL CHIP 120K 5% 1/10W (KV-HS34/38)	
R5019	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5020	1-218-710-11	METAL CHIP 5.6K 0.5% 1/16W	
R5022	1-218-732-11	METAL CHIP 47K 0.5% 1/16W	
R5023	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5025	1-218-710-11	METAL CHIP 5.6K 0.5% 1/16W	
R5027	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5028	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5029	1-218-708-11	METAL CHIP 4.7K 0.5% 1/16W	
R5030	1-218-744-11	METAL CHIP 150K 0.5% 1/16W	
R5031	1-218-692-11	METAL CHIP 1K 0.5% 1/16W	
R5033	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R5036	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R5037	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R5038	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R5040	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R5041	1-249-383-11	CARBON 1.5 5% 1/4W	
R5042	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R5043	1-218-708-11	METAL CHIP 4.7K 0.5% 1/16W	
R5044	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5045	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R5046	1-214-798-21	METAL 1.8 1% 1/2W	
R5047	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5048	1-218-719-11	METAL CHIP 13K 0.5% 1/16W	
R5049	1-218-696-11	METAL CHIP 1.5K 0.5% 1/16W	
R5052	1-214-796-00	METAL 1.5 1% 1/2W	
R5054	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5056	1-218-716-11	METAL CHIP 10K 0.5% 1/16W	
R5057	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5060	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5061	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5062	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R5063	1-218-720-11	METAL CHIP 15K 0.5% 1/16W (KV-HS29)	
R5063	1-218-723-11	METAL CHIP 20K 0.5% 1/16W (KV-HS34/38)	
R5064	1-218-748-11	METAL CHIP 220K 0.5% 1/16W	
R5065	1-218-760-11	METAL CHIP 220K 0.5% 1/16W (KV-HS29)	
R5065	1-218-840-11	METAL CHIP 270K 0.5% 1/16W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION			REMARK
			(KV-HS34/38)		
R5069	1-216-809-11	METAL CHIP	100	5%	1/10W
R5070	1-218-705-11	METAL CHIP	3.6K	0.5%	1/16W
R5071	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5072	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R5073	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5074	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R5079	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5081	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R5082	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
R5083	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5088	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5090	1-216-369-00	METAL OXIDE	1	5%	2W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5093	1-218-717-11	METAL CHIP	11K	0.5%	1/16W
R5094	1-215-869-11	METAL OXIDE	1K	5%	1W
R5095	1-249-377-11	CARBON	0.47	5%	1/4W
R5096	1-249-377-11	CARBON	0.47	5%	1/4W
R5097	1-249-377-11	CARBON	0.47	5%	1/4W
R5098	1-249-377-11	CARBON	0.47	5%	1/4W
R5101	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5102	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R5103	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5107	1-249-393-11	CARBON	10	5%	1/4W
R5108	1-218-729-11	METAL CHIP	36K	0.5%	1/16W
R5109	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R5110	1-249-401-11	CARBON	47	5%	1/4W
R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R5112	1-216-864-11	SHORT CHIP	0		
R5113	1-260-107-11	CARBON	4.7K	5%	1/2W
R5115	1-216-864-11	SHORT CHIP	0		
R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5118	1-249-393-11	CARBON	10	5%	1/4W
R5119	1-216-864-11	SHORT CHIP	0		
R5120	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5121	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5122	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5123	1-216-813-11	METAL CHIP	220	5%	1/10W
R5124	1-216-809-11	METAL CHIP	100	5%	1/10W
R5125	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5126	1-216-809-11	METAL CHIP	100	5%	1/10W
R5127	1-243-535-71	METAL OXIDE	220	5%	3W
R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R5130	1-249-393-11	CARBON	10	5%	1/4W
R5131	1-218-705-11	METAL CHIP	3.6K	0.5%	1/10W
			(KV-HS34/38)		
R5131	1-218-708-11	METAL CHIP	4.7K	0.5%	1/10W
			(KV-HS29)		
R5132	1-215-917-11	METAL OXIDE	1K	5%	3W
			(KV-H34/38)		
R5132	1-215-459-21	METAL OXIDE	2.7K	5%	3W
			(KV-H29)		
R5133	1-216-459-21	METAL OXIDE	2.7K	5%	2W
			(KV-HS29)		
R5133	1-215-917-11	METAL OXIDE	1K	5%	3W
			(KV-H34/38)		
R5135	1-215-459-21	METAL OXIDE	2.7K	5%	3W
			(KV-H29)		
R5135	1-215-917-11	METAL OXIDE	1K	5%	3W
			(KV-H34/38)		
R5136	1-215-459-21	METAL OXIDE	2.7K	5%	3W
			(KV-H29)		
R5136	1-215-917-11	METAL OXIDE	1K	5%	3W
			(KV-H34/38)		
R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5140	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5141	1-215-915-11	METAL OXIDE	470	5%	3W
R5142	1-216-385-11	METAL OXIDE	0.47	5%	3W
			(KV-HS34/38)		
R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W
			(KV-HS34/38)		
R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W
			(KV-HS34/38)		
R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5146	1-249-437-11	CARBON	47K	5%	1/4W
R5147	1-218-705-11	METAL CHIP	3.6K	0.5%	1/10W
			(KV-HS34/38)		
R5147	1-218-708-11	METAL CHIP	4.7K	0.5%	1/10W
			(KV-HS29)		
R5148	1-243-692-71	METAL OXIDE	220	5%	1W
R5149	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5155	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5156	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5157	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5160	1-216-809-11	METAL CHIP	100	5%	1/10W
R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5170	1-215-917-11	METAL OXIDE	1K	5%	3W
			(KV-HS34)		
R5170	1-216-459-11	METAL OXIDE	2.7K	5%	3W
			(KV-HS29)		
R5170	1-216-480-11	METAL OXIDE	820	5%	3W
			(KV-HS38)		
R5171	1-215-917-11	METAL OXIDE	1K	5%	3W
			(KV-HS34/38)		
R5171	1-216-459-11	METAL OXIDE	2.7K	5%	3W
			(KV-HS29)		
R5172	1-260-288-11	CARBON	0.47	5%	1/2W
R5173	1-260-288-11	CARBON	0.47	5%	1/2W
R5502	1-216-864-11	SHORT CHIP	0		
R5503	1-216-833-11	METAL CHIP	10K	0.5%	1/16W
R5504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5505	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R5506	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R5507	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R5508	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R5509	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5511	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R5514	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R5517	1-216-857-11	METAL CHIP	1M	0.5%	1/10W
R5518	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R5519	1-218-726-11	METAL CHIP	27K	0.5%	1/16W
R5520	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R5521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5522	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R5523	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R5524	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R5525	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5526	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R5529	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5530	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R5531	1-216-864-11	SHORT CHIP	0		
R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5533	1-218-736-11	METAL CHIP	68K	0.5%	1/16W
R5535	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5536	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5537	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5540	1-214-800-11	METAL	2.2	1%	1/2W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5546	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5549	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5551	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5552	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5553	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R5554	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5559	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R5560	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R5561	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R5562	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R5563	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R5564	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R5565	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5568	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R5574	1-216-864-11	SHORT CHIP	0		
R5576	1-249-395-11	CARBON	15	5%	1/4W
R5578	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R5580	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R5581	1-218-711-11	METAL CHIP	6.2K	0.5%	1/16W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5593	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5604	1-216-857-11	METAL CHIP	1M	0.5%	1/10W
R5616	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R5617	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R6100	1-260-298-51	CARBON	3.3	5%	1/2W
R6101	1-216-819-11	METAL CHIP	680	5%	1/10W
R6102	1-249-389-11	CARBON	4.7	5%	1/4W
R6103	1-216-801-11	METAL CHIP	22	5%	1/10W
R6104	1-240-205-91	METAL	22M	5%	1/2W
R6105	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6107	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6108	1-215-493-00	METAL	1M	1%	1/4W
R6110	1-249-413-11	CARBON	470	5%	1/4W
R6111	1-249-417-11	CARBON	1K	5%	1/4W
R6270	1-216-809-11	METAL CHIP	100	5%	1/10W
R6271	1-216-809-11	METAL CHIP	100	5%	1/10W
R6272	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6273	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6274	1-218-292-11	METAL CHIP	20K	5%	1/10W
R6275	1-216-820-11	METAL CHIP	820	5%	1/10W
R6276	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6277	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6278	1-214-657-11	METAL	1	1%	1/4W
R6279	1-249-395-11	CARBON	15	5%	1/4W
R6281	1-216-429-00	METAL OXIDE	270	5%	1W
R6282	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6283	1-216-809-11	METAL CHIP	100	5%	1/10W
R6284	1-216-809-11	METAL CHIP	100	5%	1/10W
R6285	1-247-807-31	CARBON	100	5%	1/4W
R6500	1-240-262-11	CEMENTED	0.68	5%	10W
R6501	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R6502	1-249-417-11	CARBON	1K	5%	1/4W
R6503	1-243-515-71	METAL OXIDE	4.7	5%	3W
R6505	1-218-660-91	METAL CHIP	47	0.5%	1/16W
R6506	1-240-262-11	CEMENTED	0.68	5%	10W
R6508	1-249-393-11	CARBON	10	5%	1/4W
R6510	1-249-393-11	CARBON	10	5%	1/4W
R6514	1-215-481-00	METAL	330K	1%	1/4W
R6517	1-218-717-11	METAL CHIP	11K	0.5%	1/16W
R6518	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R6524	1-216-864-11	SHORT CHIP	0		
R6525	1-216-817-11	METAL CHIP	470	5%	1/10W
R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6529	1-249-393-11	CARBON	10	5%	1/4W
R6531	1-249-393-11	CARBON	10	5%	1/4W
R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6536	1-249-417-11	CARBON	1K	5%	1/4W
R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R6542	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6544	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R6548	1-216-864-11	SHORT CHIP	0		
R6550	1-217-625-00	METAL	0.05	10%	2W
R6558	1-249-423-11	CARBON	3.3K	5%	1/4W
R6559	1-249-423-11	CARBON	3.3K	5%	1/4W
R6560	1-216-857-11	METAL CHIP	1M	5%	1/10W
R6561	1-216-857-11	METAL CHIP	1M	5%	1/10W
R6601	1-249-377-11	CARBON	0.47	5%	1/4W
R6622	1-240-262-11	CEMENTED	0.68	5%	10W
R6636	1-249-405-11	CARBON (KV-HS29M61/M91, KV-HS34M61/M91)	100	5%	1/4W
R6637	1-260-316-51	CARBON (KV-HS29M61/M91, KV-HS34M61/M91)	100	5%	1/2W
R6638	1-240-876-11	CEMENTED	1	5%	15W
R6639	1-240-876-11	CEMENTED	1	5%	15W
R6641	1-260-131-11	CARBON (KV-HS29M61/M91, KV-HS34M61/M91)	470K	5%	1/2W
R6642	1-260-131-11	CARBON (KV-HS29M61/M91, KV-HS34M61/M91)	470K	5%	1/2W
R6646	1-215-481-00	METAL	330K	1%	1/4W
R6662	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6663	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6664	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6666	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6667	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6679	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6685	1-249-421-11	CARBON	2.2K	5%	1/4W
R6686	1-247-289-00	METAL	8.2M	5%	1W
R6688	1-249-417-11	CARBON	1K	5%	1/4W
R6693	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R6694	1-215-471-00	METAL	120K	1%	1/4W
R6698	1-216-825-11	METAL CHIP (KV-HS29M61/M91, KV-HS34M61/M91)	2.2K	0.5%	1/10W
R6719	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6721	1-215-481-00	METAL	330K	1%	1/4W
R8001	1-216-809-11	METAL CHIP	100	5%	1/10W
R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8004	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8006	1-219-512-11	METAL	2.2M	5%	1/2W
R8007	1-219-512-11	METAL	2.2M	5%	1/2W
R8008	1-249-377-11	CARBON	0.47	5%	1/4W
R8009	1-214-800-11	METAL	2.2	1%	1/2W
R8010	1-216-864-11	SHORT CHIP	0		
R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W
R8012	1-249-419-11	CARBON	1.5K	5%	1/4W
R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8014	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R8015	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R8016	1-247-843-11	CARBON	3.3K	5%	1/4W
R8017	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R8019	1-215-485-00	METAL	470K	1%	1/4W
R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8021	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8026	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W
R8027	1-218-736-11	METAL CHIP	68K	0.5%	1/16W
R8028	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R8030	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8032	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8033	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8034	1-218-727-11	METAL CHIP	30K	0.5%	1/16W
R8035	⚠1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R8036	⚠1-215-421-00	METAL	1K	1%	1/4W
R8037	⚠1-215-447-00	METAL	12K	1%	1/4W
R8038	⚠1-215-445-00	METAL	10K	1%	1/4W
R8039	⚠1-215-445-00	METAL (KV-HS34/38)	10K	1%	1/4W

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
R8039	⚠1-215-447-00	METAL	12K (KV-HS29)	1%	1/4W
R8040	⚠1-215-447-00	METAL	12K (KV-HS34/38)	1%	1/4W
R8040	⚠1-215-448-00	METAL	13K (KV-HS29)	1%	1/4W
R8041	1-216-864-11	SHORT CHIP	0		
R8042	1-218-728-11	METAL CHIP	33K	0.5%	1/16W
R8043	1-260-126-11	CARBON	180K	5%	1/2W
R8045	1-215-485-00	METAL	470K	1%	1/4W
R8046	1-218-709-11	METAL CHIP	5.1K	0.5%	1/16W
R8048	1-215-447-00	METAL	12K (KV-HS34/38)	1%	1/4W
R8048	1-215-449-00	METAL	12K (KV-HS29)	1%	1/4W
R8049	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R8050	1-218-654-11	METAL CHIP	27	0.5%	1/16W
R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R8052	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8053	1-215-481-00	METAL	330K	1%	1/4W
R8054	1-215-481-00	METAL	330K	1%	1/4W
R8055	1-215-481-00	METAL	330K	1%	1/4W
R8056	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8057	1-218-719-11	METAL CHIP	13K	0.5%	1/16W
R8058	1-249-393-11	CARBON	10	5%	1/4W
R8059	1-216-864-11	SHORT CHIP	0		
R8060	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R8061	1-249-393-11	CARBON	10	5%	1/4W
R8062	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8066	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8070	1-243-979-71	METAL OXIDE	0.1	5%	2W
R8072	1-249-377-11	CARBON	0.47	5%	1/4W
R8076	1-240-931-91	METAL	330	5%	0.5W
R8078	1-218-748-11	METAL CHIP	220K	0.5%	1/16W
R8079	1-249-431-11	CARBON	15K	5%	1/4W
R8082	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R8085	1-219-749-91	METAL	10K	5%	1/2W
R8086	1-219-750-91	METAL	22K	5%	1/2W
R8087	1-216-864-11	SHORT CHIP	0		
R8088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8089	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8090	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8091	1-215-485-00	METAL	470K	1%	1/4W
R8093	1-216-101-01	METAL CHIP	150K	5%	1/10W
R8095	1-215-485-00	METAL	470K	1%	1/4W
R8096	1-216-864-11	SHORT CHIP	0		
R8097	1-216-797-11	METAL CHIP	10	5%	1/10W
R8098	1-249-441-11	CARBON	100K	5%	1/4W
R8099	1-249-441-11	CARBON	100K	5%	1/4W
R8100	1-249-441-00	CARBON	100K	5%	1/4W
R8101	1-216-101-11	METAL CHIP	150K	5%	1/10W
R8102	1-249-433-11	CARBON	22K	5%	1/4W
R8103	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R8104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8108	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8109	1-216-485-21	METAL OXIDE	5.6K (KV-HS29)	5%	3W
R8109	1-216-486-21	METAL OXIDE	8.2K (KV-HS34/38)	5%	3W
R8111	1-215-922-11	METAL OXIDE	6.8K (KV-HS29M61/M90/M91)	5%	3W
R8111	1-216-486-00	METAL OXIDE	8.2K (KV-HS34/38)	5%	3W
R8112	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8113	1-216-117-11	METAL CHIP	680K	5%	1/10W
R8114	1-215-911-11	METAL OXIDE	100 (KV-HS29M91)	5%	3W
R8114	1-215-922-11	METAL OXIDE	6.8K (KV-HS29M61/M90)	5%	3W
R8114	1-216-486-00	METAL OXIDE	8.2K (KV-HS34/38)	5%	3W
R8115	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8116	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8118	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8119	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8123	1-216-809-11	METAL CHIP	100	5%	1/10W
R8125	1-216-797-11	METAL CHIP	10	5%	1/10W
R8126	1-216-797-11	METAL CHIP	10	5%	1/10W
R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W
R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8158	1-216-809-11	METAL CHIP	100	5%	1/10W
R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W
R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W
R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8162	1-216-857-11	METAL CHIP	1M	5%	1/10W
R8163	1-216-857-11	METAL CHIP	1M	5%	1/10W
R8200	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8204	1-216-864-11	SHORT CHIP	0		

<VARIABLE RESISTOR>

RV8001⚠	1225-630-91	RES, VAR, ADJ, CERMET 20K(HV PROT)
RV8002⚠	1-241-763-11	RES, ADJ, CERMET 4.7K(HV ADJ)

<RELAY>

RY6001⚠	1-755-395-11	RELAY (AC POWER)
RY6602⚠	1-755-395-11	RELAY, AC POWER (KV-HS29M61/M91, 34M61/M91)
RY6603⚠	1-755-352-11	RELAY, AC POWER

<SPARK GAP>

SG8002	1-517-499-21	GAP, SPARK

<TRANSFORMER>

T5001	1-437-523-11	TRANSFORMER, HORIZONTAL OUTPUT (KV-HS29/38)
T5001	1-437-669-11	TRANSFORMER, HORIZONTAL OUTPUT (KV-HS34)
T5002	1-435-636-31	TRANSFORMER, HORIZONTAL DRIVE
T6100 ⚠	1-433-844-11	TRANSFORMER, CONVERTER
T6502 ⚠	1-437-856-11	TRANSFORMER, CONVERTER (PIT)
T8001 ⚠	1-453-387-31	FBT ASSY NX-6020//M3J4 (KV-HS38)
T8001 ⚠	1-453-445-11	FBT ASSY NX-6020//M3J4 (KV-HS29/34)
T8002	1-437-690-11	TRANSFORMER, FERRITE (DFT)

<THERMISTOR>

TH5001	1-800-193-00	THERMISTOR
TH5002	1-807-796-11	THERMISTOR
TH6001⚠	1-803-541-11	THERMISTOR
TH6100	1-803-586-11	THERMISTOR, NTC

<ARISTOR>

VD6601	1-803-611-11	VARISTOR (ERE471D-20A) (KV-HS29M61/M91, 34M61/M91)
VD6603	1-803-830-11	VARISTOR (ERZV14D621)

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* A-1401-756-A A1 BOARD, MOUNT
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<CAPACITOR>

C8200	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C8202	1-126-935-11	ELECT	470UF	20.00%	16V
C8203	1-126-947-11	ELECT	47UF	20.00%	16V
C8204	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A1 C1

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8205	1-107-698-11	ELECT	10UF	20.00%	25V
C8207	1-107-698-11	ELECT	10UF	20.00%	25V
C8208	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8209	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8210	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8211	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8216	1-126-935-11	ELECT	470UF	20.00%	16V
C8217	1-104-665-11	ELECT	100UF	20.00%	25V
C8222	1-128-934-91	CERAMIC CHIP	0.33UF	20%	10V
C8223	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8224	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8225	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8226	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8227	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8228	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8229	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8230	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8232	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8233	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8235	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C8236	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C8237	1-115-467-11	CERAMIC CHIP	0.22UF	10.00%	10V
C8238	1-115-467-11	CERAMIC CHIP	0.22UF	10.00%	10V
C8239	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8276	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8277	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8279	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8280	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8281	1-115-467-11	CERAMIC CHIP	0.22UF	10.00%	10V
C8282	1-115-467-11	CERAMIC CHIP	0.22UF	10.00%	10V
C8283	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8284	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8285	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8286	1-162-967-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C8287	1-162-967-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C8288	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C8289	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C8291	1-126-935-11	ELECT	470UF	20.00%	16V
C8292	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8293	1-162-969-11	CERAMIC CHIP	0.0068UF	10.00%	25V
C8295	1-126-935-11	ELECT	470UF	20.00%	16V
C8296	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V

<CONNECTOR>

CN8102	1-793-496-11	CONNECTOR, BOARD TO BOARD 20P	

<DIODE>

D8217	8-719-081-97	DIODE MMDL914T1	
D8218	8-719-081-97	DIODE MMDL914T1	

<IC>

IC8200	8-759-100-96	IC NJM4558M-TE2	
IC8205	8-759-711-10	IC NJU4066BM-T2	
IC8207	6-702-145-01	IC NJW1139GK1-TE2	
IC8601	8-752-093-03	IC CXA3500A	

<COIL>

L8201	1-414-857-11	INDUCTOR	100UH

<TRANSISTOR>

Q8101	8-729-907-00	TRANSISTOR DTC114EUA-T106	
Q8102	8-729-907-00	TRANSISTOR DTC114EUA-T106	
Q8103	8-729-907-00	TRANSISTOR DTC114EUA-T106	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8200	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R8201	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8202	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R8203	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8205	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
R8206	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
R8207	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8217	1-216-835-11	METAL CHIP	15K	5%	1/10W
R8218	1-216-835-11	METAL CHIP	15K	5%	1/10W
R8219	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8220	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8221	1-216-836-11	METAL CHIP	18K	5%	1/10W
R8222	1-216-836-11	METAL CHIP	18K	5%	1/10W
R8269	1-216-809-11	METAL CHIP	100	5%	1/10W
R8270	1-216-809-11	METAL CHIP	100	5%	1/10W
R8271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8275	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8276	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8277	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8278	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8279	1-216-837-11	METAL CHIP	22K	5%	1/10W

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* A-1401-746-A C1 BOARD, MOUNT(KV-HS34/38)
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* A-1401-882-A C1 BOARD, MOUNT(KV-HS29)
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7-682-949-01 SCREW +PSW 3X10

<CAPACITOR>

C9001	1-126-940-11	ELECT	330UF	20.00%	25V
C9004	1-115-350-51	CERAMIC	0.0047UF		2KV
C9009	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V
C9010	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V
C9011	1-161-830-00	CERAMIC	0.0047UF		500V
C9012	1-161-830-00	CERAMIC	0.0047UF		500V
C9013	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9014	1-161-830-00	CERAMIC	0.0047UF		500V
C9015	1-163-104-00	CERAMIC CHIP	30PF (KV-HS29)	5.00%	50V
C9015	1-163-106-00	CERAMIC CHIP	36PF (KV-HS34/38)	5.00%	50V
C9018	1-107-961-91	ELECT	10UF	20.00%	250V
C9019	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C9020	1-107-961-91	ELECT	10UF	20.00%	250V
C9021	1-107-961-91	ELECT	10UF	20.00%	250V
C9022	1-101-004-00	CERAMIC	0.01UF		50V
C9023	1-101-004-00	CERAMIC	0.01UF		50V
C9024	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C9025	1-104-653-11	ELECT	220UF	20.00%	16V
C9026	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C9027	1-101-004-00	CERAMIC	0.01UF		50V
C9031	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C9032	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C9033	1-107-662-11	ELECT	22UF	20.00%	250V
C9035	1-126-933-11	ELECT	100UF	20.00%	16V
C9036	1-126-964-11	ELECT	10UF	20.00%	50V
C9037	1-126-961-11	ELECT	2.2UF	20.00%	50V
C9038	1-126-963-11	ELECT	4.7UF	20.00%	50V
C9042	1-128-527-11	ELECT	330UF	20%	25V
C9044	1-126-934-11	ELECT	220UF	20.00%	16V
C9045	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C9046	1-126-933-11	ELECT	100UF	20.00%	16V
C9047	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C9048	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C9049	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C9050	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

<COATING LEAD>

CL9001*	4-042-408-01	PIN, COATING LEAD	

C1

REF. NO.	PART NO.	DESCRIPTION	REMARK
CL9002*	4-042-408-01	PIN, COATING LEAD	
CL9003*	4-042-408-01	PIN, COATING LEAD	
		<CONNECTOR>	
CN9001*	1-764-333-11	PLUG, CONNECTOR 10P	
CN9002*	1-766-242-11	PIN, CONNECTOR (PC BOARD) 4P	
CN9003	1-695-915-11	TAB (CONTACT)	
CN9004	1-695-915-11	TAB (CONTACT)	
CN9007	1-695-915-11	TAB (CONTACT)	
CN9008	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D9001	8-719-911-19	DIODE 1SS119-25TD	
D9003	8-719-911-19	DIODE 1SS119-25TD	
D9005	8-719-081-97	DIODE MMDL914T1	
D9006	8-719-051-85	DIODE HSS83TD	
D9007	8-719-051-85	DIODE HSS83TD	
D9008	8-719-051-85	DIODE HSS83TD	
D9009	8-719-908-03	DIODE GP08DPKG23	
D9010	8-719-110-17	DIODE MTZJ-T-77-10	
D9013	8-719-911-19	DIODE 1SS119-25TD	
D9014	8-719-911-19	DIODE 1SS119-25TD	
D9015	8-719-911-19	DIODE 1SS119-25TD	
D9016	8-719-911-19	DIODE 1SS119-25TD	
D9017	8-719-911-19	DIODE 1SS119-25TD	
		<IC>	
IC9001	8-759-680-01	IC TDA6120Q/N2/S1	
IC9002	8-759-680-01	IC TDA6120Q/N2/S1	
IC9003	8-759-680-01	IC TDA6120Q/N2/S1	
		<JACK>	
J9001⚠	1-451-470-21	SOCKET, CRT	
		<COIL>	
L9002	1-408-399-00	INDUCTOR 1.5UH	
L9003	1-408-592-11	INDUCTOR 1.2UH	
L9004	1-408-592-11	INDUCTOR 1.2UH	
L9005	1-406-666-21	INDUCTOR 150UH	
L9006	1-412-526-11	INDUCTOR 12UH	
		<NEON LAMP>	
NL9003	1-519-421-11	GAP, DISCHARGE	
		<TRANSISTOR>	
Q9001	8-729-010-05	TRANSISTOR MSB709-RT1	
Q9002	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q9003	8-729-010-25	TRANSISTOR MSD601-RT1	
Q9004	8-729-010-25	TRANSISTOR MSD601-RT1	
Q9005	8-729-010-25	TRANSISTOR MSD601-RT1	
Q9007	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q9008	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q9009	8-729-010-05	TRANSISTOR MSB709-RT1	
Q9010	8-729-010-05	TRANSISTOR MSB709-RT1	
Q9011	8-729-010-05	TRANSISTOR MSB709-RT1	
Q9012	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q9013	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q9014	8-729-046-80	TRANSISTOR 2SC4634LS-CB11	
Q9015	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
		<RESISTOR>	
R9001	1-216-633-11	METAL CHIP 180 0.5% 1/10W	
R9004	1-249-428-11	CARBON 8.2K 5% 1/4W	
R9005	1-249-421-11	CARBON 2.2K 5% 1/4W	
R9006	1-249-429-11	CARBON 10K 5% 1/4W	
R9007	1-208-783-11	METAL CHIP 1.1K 0.5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION			REMARK
R9009	1-249-429-11	CARBON	10K	5%	1/4W
R9010	1-249-429-11	CARBON	10K	5%	1/4W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9014	1-249-409-11	CARBON	220	5%	1/4W
R9015	1-249-409-11	CARBON	220	5%	1/4W
R9016	1-249-409-11	CARBON	220	5%	1/4W
R9018	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R9019	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R9020	1-216-025-11	RES-CHIP	100	5%	1/10W
R9021	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9022	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9023	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9025	1-216-025-11	RES-CHIP	100	5%	1/10W
R9026	1-208-783-11	METAL CHIP	1.1K	0.5%	1/10W
R9027	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9028	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9029	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9030	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9031	1-208-783-11	METAL CHIP	1.1K	0.5%	1/10W
R9032	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9033	1-215-435-00	METAL	3.9K	1%	1/4W
R9034	1-215-428-00	METAL	2K	1%	1/4W
R9035	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9036	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9037	1-215-926-00	METAL OXIDE	33K	5%	3W
R9039	1-216-025-11	RES-CHIP	100	5%	1/10W
R9041	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9042	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9043	1-215-926-00	METAL OXIDE	33K	5%	3W
R9044	1-215-926-00	METAL OXIDE	33K	5%	3W
R9047	1-219-744-11	METAL	220	5%	1/2W
R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9051	1-219-744-11	METAL	220	5%	1/2W
R9052	1-219-744-11	METAL	220	5%	1/2W
R9055	1-260-126-81	CARBON	180K	5%	1/2W
R9056	1-219-743-11	METAL	100	5%	1/2W
R9057	1-220-827-91	METAL	560K	5%	1/2W
R9059	1-247-752-11	CARBON	1K	5%	1/2W
R9061	1-219-743-11	METAL	100	5%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-260-123-11	CARBON	100K	5%	1/2W
R9064	1-260-126-81	CARBON	180K	5%	1/2W
R9067	1-219-769-11	METAL	3.3M	5%	1/2W
R9070	1-247-807-31	CARBON	100	5%	1/4W
R9071	1-247-807-31	CARBON	100	5%	1/4W
R9072	1-247-807-31	CARBON	100	5%	1/4W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9076	1-219-769-11	METAL	3.3M	5%	1/2W
R9077	1-249-417-11	CARBON	1K	5%	1/4W
R9078	1-249-427-11	CARBON	6.8K	5%	1/4W
R9079	1-249-426-11	CARBON	5.6K	5%	1/4W
R9081	1-247-843-11	CARBON	3.3K	5%	1/4W
R9083	1-249-436-11	CARBON	39K	5%	1/4W
R9084	1-260-126-81	CARBON	180K	5%	1/2W
R9085	1-260-126-81	CARBON	180K	5%	1/2W
R9089	1-215-442-00	METAL	7.5K	1%	1/4W
R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9092	1-216-295-91	SHORT CHIP	0		
R9094	1-216-295-91	SHORT CHIP	0		
R9095	1-216-295-91	SHORT CHIP	0		
		<VARIABLE RESISTOR>			
RV9001⚠	1-241-714-11	RES, ADJ, METAL FILM 110M(H.ST)			
RV9002⚠	1-241-788-11	RES, ADJ, CARBON 100K			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

E

REF. NO.	PART NO.	DESCRIPTION			REMARK
**********					

* A-1401-757-A E BOARD, MOUNT
****

<CAPACITOR>

C4304	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C4305	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C4306	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C4307	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4308	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C4309	1-126-933-11	ELECT	100UF	20.00%	16V
C4310	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4311	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C4312	1-126-933-11	ELECT	100UF	20.00%	16V
C4313	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C4315	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C4316	1-126-933-11	ELECT	100UF	20.00%	16V
C4317	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4318	1-126-933-11	ELECT	100UF	20.00%	16V
C4319	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4320	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4321	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C4322	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4323	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C4325	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C4326	1-126-962-11	ELECT	3.3UF	20.00%	50V
C4327	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C4328	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C4329	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C4330	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4331	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4332	1-137-652-91	CERAMIC CHIP	39000PF	10%	16V
C4333	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4334	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4335	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4337	1-126-933-11	ELECT	100UF	20.00%	16V
C4338	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4339	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4340	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4341	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4342	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4343	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4344	1-126-933-11	ELECT	100UF	20.00%	16V
C4345	1-126-933-11	ELECT	100UF	20.00%	16V
C4348	1-126-933-11	ELECT	100UF	20.00%	16V
C4351	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4352	1-110-563-11	CERAMIC CHIP	0.068UF	10.00%	16V
C4357	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C4358	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4359	1-126-933-11	ELECT	100UF	20.00%	16V
C4360	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4361	1-126-933-11	ELECT	100UF	20.00%	16V
C4362	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4363	1-126-933-11	ELECT	100UF	20.00%	16V
C4364	1-126-933-11	ELECT	100UF	20.00%	16V

<CONNECTOR>

CN4301*	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P
CN4302*	1-564-518-11	PLUG, CONNECTOR 3P
CN4305*	1-564-525-11	PLUG, CONNECTOR 10P

<DIODE>

D4300	8-719-081-97	DIODE MMDL914T1
D4301	8-719-081-97	DIODE MMDL914T1
D4302	8-719-081-97	DIODE MMDL914T1
D4304	8-719-025-31	DIODE 02CZ5.6-TE85L
D4305	8-719-404-50	DIODE MA111-TX

REF. NO.	PART NO.	DESCRIPTION			REMARK
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<IC>

IC4300	8-752-102-68	IC CXA2170Q
IC4301	8-759-576-72	IC LF50CDT-TR

<COIL>

L4301	1-469-555-21	INDUCTOR	10UH		
L4302	1-469-555-21	INDUCTOR	10UH		
L4303	1-469-555-21	INDUCTOR	10UH		
L4304	1-469-555-21	INDUCTOR	10UH		
L4305	1-469-555-21	INDUCTOR	10UH		
L4306	1-469-555-21	INDUCTOR	10UH		
L4308	1-469-555-21	INDUCTOR	10UH		

<TRANSISTOR>

Q4305	8-729-905-35	TRANSISTOR 2SC4081T106R
Q4306	8-729-122-63	TRANSISTOR 2SA1226-T1E4
Q4309	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q4311	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q4312	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q4313	8-729-122-63	TRANSISTOR 2SA1226-T1E4
Q4314	8-729-905-35	TRANSISTOR 2SC4081T106R
Q4316	8-729-122-63	TRANSISTOR 2SA1226-T1E4
Q4317	8-729-905-35	TRANSISTOR 2SC4081T106R
Q4319	8-729-122-63	TRANSISTOR 2SA1226-T1E4

<RESISTOR>

R4309	1-216-809-11	METAL CHIP	100	5%	1/10W
R4310	1-216-809-11	METAL CHIP	100	5%	1/10W
R4312	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R4313	1-216-809-11	METAL CHIP	100	5%	1/10W
R4314	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4315	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R4317	1-216-809-11	METAL CHIP	100	5%	1/10W
R4318	1-216-809-11	METAL CHIP	100	5%	1/10W
R4319	1-216-809-11	METAL CHIP	100	5%	1/10W
R4320	1-216-809-11	METAL CHIP	100	5%	1/10W
R4321	1-216-809-11	METAL CHIP	100	5%	1/10W
R4322	1-216-818-11	METAL CHIP	560	5%	1/10W
R4323	1-216-809-11	METAL CHIP	100	5%	1/10W
R4324	1-216-809-11	METAL CHIP	100	5%	1/10W
R4325	1-216-805-11	METAL CHIP	47	5%	1/10W
R4326	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4327	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R4328	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4329	1-216-809-11	METAL CHIP	100	5%	1/10W
R4330	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4331	1-216-809-11	METAL CHIP	100	5%	1/10W
R4332	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R4334	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R4335	1-216-809-11	METAL CHIP	100	5%	1/10W
R4336	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R4337	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R4338	1-216-809-11	METAL CHIP	100	5%	1/10W
R4339	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R4340	1-216-809-11	METAL CHIP	100	5%	1/10W
R4341	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4342	1-216-809-11	METAL CHIP	100	5%	1/10W
R4343	1-216-809-11	METAL CHIP	100	5%	1/10W
R4344	1-216-864-11	SHORT CHIP	0		
R4345	1-216-809-11	METAL CHIP	100	5%	1/10W
R4346	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R4347	1-216-809-11	METAL CHIP	100	5%	1/10W
R4349	1-216-813-11	METAL CHIP	220	5%	1/10W
R4350	1-216-809-11	METAL CHIP	100	5%	1/10W
R4351	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R4352	1-216-813-11	METAL CHIP	220	5%	1/10W
R4353	1-216-809-11	METAL CHIP	100	5%	1/10W
R4354	1-216-813-11	METAL CHIP	220	5%	1/10W
R4355	1-216-809-11	METAL CHIP	100	5%	1/10W
R4356	1-216-809-11	METAL CHIP	100	5%	1/10W

E F1 F2

REF. NO.	PART NO.	DESCRIPTION			REMARK
R4357	1-216-809-11	METAL CHIP	100	5% 1/10W	
R4358	1-216-809-11	METAL CHIP	100	5% 1/10W	
R4364	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R4366	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R4367	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R4369	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4370	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4371	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R4372	1-216-809-11	METAL CHIP	100	5% 1/10W	
R4373	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R4376	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R4377	1-216-819-11	METAL CHIP	680	5% 1/10W	
R4378	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4379	1-216-809-11	METAL CHIP	100	5% 1/10W	
R4380	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4383	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R4384	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4385	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4387	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4388	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R4391	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4392	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4393	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R4394	1-216-809-11	METAL CHIP	100	5% 1/10W	
R4395	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R4396	1-216-864-11	SHORT CHIP	0		
R4397	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4399	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4400	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4404	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4405	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R4407	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4409	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4410	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4412	1-216-825-11	METAL CHIP	2.2K	5% 1/10W	
R4414	1-216-809-11	METAL CHIP	100	5% 1/10W	
R4418	1-216-864-11	SHORT CHIP	0		
R4419	1-216-803-11	METAL CHIP	33	5% 1/10W	
R4420	1-216-803-11	METAL CHIP	33	5% 1/10W	
R4421	1-216-803-11	METAL CHIP	33	5% 1/10W	

<CRYSTAL>

X4300	1-760-895-21	VIBRATOR, CERAMIC (2.7MHz)	

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* A-1401-752-A F1 BOARD, MOUNT
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* 4-374-846-01 COVER, CAPACITOR, CAP TYPE

<CAPACITOR>

C1601⚠	1-104-708-11	MYLAR	0.47UF	20.00%	250V
C1602⚠	1-109-835-11	MYLAR	0.68UF	20.00%	250V
C1603⚠	1-117-703-11	CERAMIC	0.0047UF	99%	250V

<CONNECTOR>

CN1601*	1-580-843-11	PIN, CONNECTOR (POWER)
CN1602*	1-580-843-11	PIN, CONNECTOR (POWER)
CN1603	1-695-915-11	TAB (CONTACT)
CN1604	1-695-915-11	TAB (CONTACT)

<FUSE>

F1601⚠	1-532-299-00	FUSE, TIME-LAG 5A/250V
FH1601	1-533-223-11	HOLDER, FUSE(FOR ; F1601)
FH1602	1-533-223-11	HOLDER, FUSE(FOR ; F1601)

REF. NO.	PART NO.	DESCRIPTION		REMARK
<FERRITE BEAD>				
FB1601	1-410-397-21	FERRITE	1.1UH	
FB1602	1-410-397-21	FERRITE	1.1UH	
FB1603	1-410-397-21	FERRITE	1.1UH	
FB1604	1-410-397-21	FERRITE	1.1UH	

<RESISTOR>

R1601	1-219-759-11	METAL	1M	5%	1/2W

<TRANSFORMER>

T1601⚠	1-433-900-11	TRANSFORMER, LINE FILTER
T1602⚠	1-433-900-11	TRANSFORMER, LINE FILTER

<VARISTOR>

VDR161	1-803-830-31	VARISTOR (ERZV14D621)

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* A-1401-748-A F2 BOARD, MOUNT
****

* 4-055-304-01 HOLDER, LED

<CAPACITOR>

C1910	1-126-947-11	ELECT	47UF	20.00%	16V
C1911	1-126-947-11	ELECT	47UF	20.00%	16V
C1912	1-102-114-00	CERAMIC	470PF	10.00%	50V

<CONNECTOR>

CN1901*	1-564-508-11	PLUG, CONNECTOR 5P
CN1902*	1-580-844-11	PIN, CONNECTOR (POWER)
CN1903*	1-580-844-11	PIN, CONNECTOR (POWER)

<DIODE>

D1906	8-719-045-19	DIODE SPB-26MVWF

<IC>

IC1901	8-742-014-21	HYB IC SBX1981-51(21)

<TRANSISTOR>

Q1901	8-729-030-02	TRANSISTOR DTC144ESA-TP
Q1902	8-729-030-02	TRANSISTOR DTC144ESA-TP

<RESISTOR>

R1911	1-249-411-11	CARBON	330	5%	1/4W
R1913	1-249-429-11	CARBON	10K	5%	1/4W
R1914	1-249-411-11	CARBON	330	5%	1/4W
R1915	1-249-429-11	CARBON	10K	5%	1/4W
R1916	1-249-401-11	CARBON	47	5%	1/4W
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W

<SWITCH>

S1651 ⚠	1-571-433-21	SWITCH, PUSH (AC POWER)(POWER)

H1 **H2** **MS2**

REF. NO.	PART NO.	DESCRIPTION	REMARK

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* A-1401-749-A H1 BOARD, MOUNT
****

<CONNECTOR>

CN1980	1-564-506-11	PLUG, CONNECTOR 3P	

<DIODE>

D1970	8-719-050-84	DIODE RB441Q-40T-77	
D1971	8-719-050-84	DIODE RB441Q-40T-77	
D1972	8-719-050-84	DIODE RB441Q-40T-77	
D1973	8-719-070-13	DIODE NNCD6.8A-T1	
D1974	8-719-070-13	DIODE NNCD6.8A-T1	
D1975	8-719-070-13	DIODE NNCD6.8A-T1	

<RESISTOR>

R1970	1-249-416-11	CARBON	820	5%	1/4W
R1971	1-249-417-11	CARBON	1K	5%	1/4W
R1972	1-249-418-11	CARBON	1.2K	5%	1/4W
R1973	1-249-420-11	CARBON	1.8K	5%	1/4W
R1974	1-247-843-11	CARBON	3.3K	5%	1/4W

<SWITCH>

S1973	1-692-431-21	SWITCH, TACTILE(PRG +)
S1974	1-692-431-21	SWITCH, TACTILE(PRG -)
S1975	1-692-431-21	SWITCH, TACTILE(VOL +)
S1976	1-692-431-21	SWITCH, TACTILE(VOL -)
S1977	1-692-431-21	SWITCH, TACTILE(TV/VIDEO)

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* A-1401-750-A H2 BOARD, MOUNT
****

<CAPACITOR>

C1913	1-126-964-11	ELECT	10UF	20.00%	50V
C1914	1-126-964-11	ELECT	10UF	20.00%	50V
C1930	1-136-153-00	FILM	0.01UF	5.00%	50V
C1932	1-136-153-00	FILM	0.01UF	5.00%	50V
C1935	1-102-824-00	CERAMIC	470PF	5.00%	50V
C1938	1-102-824-00	CERAMIC	470PF	5.00%	50V

<CONNECTOR>

CN1932	1-564-509-11	PLUG, CONNECTOR 6P
CN1933	1-564-506-21	PLUG, CONNECTOR 3P
CN1934*	1-564-512-11	PLUG, CONNECTOR 9P
CN1935*	1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

D1930	8-719-070-16	DIODE NNCD9.1A-T1
D1935	8-719-070-16	DIODE NNCD9.1A-T1

<JACK>

J1931	1-770-786-11	JACK)HEADPHONE)
J1932	1-694-242-11	TERMINAL, S(VIDEO IN4)
J1933	1-770-329-13	JACK, PIN 3P(VIDEO IN4)

<COIL>

L1931	1-408-603-31	INDUCTOR	10UH
L1932	1-408-603-31	INDUCTOR	10UH

REF. NO.	PART NO.	DESCRIPTION	REMARK

<TRANSISTOR>

Q1903	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA
Q1904	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA

<RESISTOR>

R1912	1-215-442-00	METAL	7.5K	1%	1/4W
R1919	1-249-417-11	CARBON	1K	5%	1/4W
R1922	1-249-417-11	CARBON	1K	5%	1/4W
R1931	1-249-424-11	CARBON	3.9K	5%	1/4W
R1933	1-247-895-91	CARBON	470K	5%	1/4W
R1934	1-247-807-31	CARBON	100	5%	1/4W
R1935	1-247-807-31	CARBON	100	5%	1/4W
R1936	1-247-895-91	CARBON	470K	5%	1/4W
R1937	1-249-428-11	CARBON	8.2K	5%	1/4W
R1952	1-249-421-11	CARBON	2.2K	5%	1/4W

<SWITCH>

S1931	1-692-431-21	SWITCH, TACTILE(PROTECTOR)
S1932	1-692-431-21	SWITCH, TACTILE(MENU)
S1933	1-692-431-21	SWITCH, TACTILE(ENTER)

<THERMISTOR>

TH1901	1-807-796-11	THERMISTOR

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* A-1401-751-A MS2 BOARD, MOUNT
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<CAPACITOR>

C1405	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1406	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1408	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C1409	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1410	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1412	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1413	1-126-390-11	ELECT CHIP	22UF	20.00%	6.3V
C1414	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1415	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1416	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1417	1-126-390-11	ELECT CHIP	22UF	20.00%	6.3V
C1419	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1420	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V

<CONNECTOR>

CN1401*	1-816-402-12	CONNECTOR, MEMORY STICK
CN1402*	1-816-124-11	PIN, CONNECTOR (FOR PWB) 18P
CN1404	1-695-915-11	TAB (CONTACT)

<DIODE>

D1401	8-719-421-69	DIODE MA133-TX
D1402	8-719-421-69	DIODE MA133-TX
D1403	8-719-421-69	DIODE MA133-TX
D1404	8-719-421-69	DIODE MA133-TX
D1405	8-719-421-69	DIODE MA133-TX
D1406	8-719-421-69	DIODE MA133-TX
D1407	8-719-421-69	DIODE MA133-TX
D1408	8-719-421-69	DIODE MA133-TX
D1409	6-500-348-01	DIODE KPA-3010ID-GEC
D1410	6-500-019-01	DIODE MM3Z3V9ST1
D1411	6-500-019-01	DIODE MM3Z3V9ST1
D1412	8-719-421-69	DIODE MA133-TX
D1413	8-719-421-69	DIODE MA133-TX
D1414	8-719-421-69	DIODE MA133-TX
D1415	8-719-421-69	DIODE MA133-TX
D1416	8-719-421-69	DIODE MA133-TX

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

MS2 V2

REF. NO.	PART NO.	DESCRIPTION			REMARK
D1417	8-719-421-69	DIODE MA133-TX			
		<FERRITE BEAD>			
FB1401	1-414-921-11	FERRITE	0UH		
FB1402	1-414-921-11	FERRITE	0UH		
FB1403	1-414-921-11	FERRITE	0UH		
FB1404	1-414-921-11	FERRITE	0UH		
		<IC>			
IC1401	8-759-639-86	IC SN65LVDS32DR			
IC1402	6-701-763-11	IC DS90LV017ATMX			
IC1403	8-759-698-08	IC SN74CBTLV1G125DCKR			
		<COIL>			
L1401	1-419-370-21	INDUCTOR	0UH		
L1402	1-419-370-21	INDUCTOR	0UH		
L1403	1-419-370-21	INDUCTOR	0UH		
L1404	1-419-370-21	INDUCTOR	0UH		
L1405	1-419-370-21	INDUCTOR	0UH		
		<TRANSISTOR>			
Q1401	8-729-140-63	TRANSISTOR 2SA1611T1-M5M6			
Q1402	8-729-029-14	TRANSISTOR DTC144EUA-T106			
Q1403	8-729-216-22	TRANSISTOR 2PB709AR-115			
		<RESISTOR>			
R1401	1-216-801-11	METAL CHIP	22	5%	1/10W
R1402	1-216-801-11	METAL CHIP	22	5%	1/10W
R1403	1-216-801-11	METAL CHIP	22	5%	1/10W
R1404	1-216-801-11	METAL CHIP	22	5%	1/10W
R1405	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R1406	1-216-809-11	METAL CHIP	100	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1408	1-216-809-11	METAL CHIP	100	5%	1/10W
R1409	1-216-809-11	METAL CHIP	100	5%	1/10W
R1410	1-216-803-11	METAL CHIP	33	5%	1/10W
R1421	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1422	1-216-809-11	METAL CHIP	100	5%	1/10W
R1424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1425	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1426	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R1428	1-216-864-11	SHORT CHIP	0		
R1431	1-216-864-11	SHORT CHIP	0		

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* A-1401-911-A V2 BOARD, MOUNT
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		<CAPACITOR>			
C5802	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C5805	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C5806	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C5815	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5816	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5817	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5818	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V
C5820	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V
C5821	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C5822	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C5823	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5826	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5830	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C5831	1-126-933-11	ELECT	100UF	20.00%	16V
C5835	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C5837	1-126-933-11	ELECT	100UF	20.00%	16V
C5852	1-162-995-11	CERAMIC CHIP	0.022UF	50V	
C5853	1-126-963-11	ELECT	4.7UF	20.00%	50V
		<CONNECTOR>			
CN5801*	1-774-812-11	CONNECTOR, BOARD TO BOARD 7P			
CN5803*	1-774-812-11	CONNECTOR, BOARD TO BOARD 7P			
		<DIODE>			
D5802	8-719-914-44	DIODE DAP202K			
D5803	8-719-045-99	DIODE RD2.2M-T1B			
		<FERRITE BEAD>			
FB5801	1-410-397-21	FERRITE	1.1UH		
FB5803	1-410-397-21	FERRITE	1.1UH		
FB5804	1-410-397-21	FERRITE	1.1UH		
FB5805	1-410-397-21	FERRITE	1.1UH		
		<IC>			
IC5801	6-700-607-01	IC SAA5264PS/M3			
IC5802	8-759-828-44	IC NJM2870F33 (TE2)			
		<TRANSISTOR>			
Q5801	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5803	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5806	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q5807	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q5808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q5810	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R5821	1-217-725-00	RES-CHIP	24K	5%	1/16W
R5822	1-216-025-11	RES-CHIP	100	5%	1/10W
R5828	1-216-025-11	RES-CHIP	100	5%	1/10W
R5829	1-216-025-11	RES-CHIP	100	5%	1/10W
R5830	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5831	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5839	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R5841	1-216-025-11	RES-CHIP	100	5%	1/10W
R5842	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5843	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5845	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5846	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5847	1-216-025-11	RES-CHIP	100	5%	1/10W
R5848	1-216-025-11	RES-CHIP	100	5%	1/10W
R5849	1-216-025-11	RES-CHIP	100	5%	1/10W
R5851	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5853	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R5857	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5859	1-216-029-00	RES-CHIP	150	5%	1/10W
R5860	1-216-029-00	RES-CHIP	150	5%	1/10W
R5861	1-216-043-91	RES-CHIP	560	5%	1/10W
R5862	1-216-029-00	RES-CHIP	150	5%	1/10W
R5863	1-216-043-91	RES-CHIP	560	5%	1/10W

V2 V V3 DC

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5864	1-216-041-00	RES-CHIP	470	5%	1/10W
R5866	1-215-858-00	METAL OXIDE	15	5%	1W
R5871	1-216-037-00	RES-CHIP	330	5%	1/10W
R5875	1-216-041-00	RES-CHIP	470	5%	1/10W
R5876	1-216-041-00	RES-CHIP	470	5%	1/10W
R5877	1-216-041-00	RES-CHIP	470	5%	1/10W
R5878	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5882	1-216-043-91	RES-CHIP	560	5%	1/10W
R5883	1-216-041-00	RES-CHIP	470	5%	1/10W
R5884	1-216-025-11	RES-CHIP	100	5%	1/10W
R5886	1-216-037-00	RES-CHIP	330	5%	1/10W
R5887	1-216-041-00	RES-CHIP	470	5%	1/10W
R5892	1-216-025-11	RES-CHIP	100	5%	1/10W
R5893	1-216-041-00	RES-CHIP	470	5%	1/10W
R5899	1-216-025-11	RES-CHIP	100	5%	1/10W

<CRYSTAL>

X5801	1-578-774-11	VIBRATOR, CRYSTAL	

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* A-1401-747-A V BOARD, MOUNT(KV-HS34/38)
****
* A-1401-883-A V3 BOARD, MOUNT(KV-HS29)
****

4-382-854-01 SCREW (M3X8), P, SW (+)

<CAPACITOR>

C9101	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C9102	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C9103	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C9104	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C9105	1-106-375-12	MYLAR	0.022UF	99%	200V
C9106	1-107-667-11	ELECT	2.2UF	20.00%	160V
C9107	1-126-935-11	ELECT	470UF	20.00%	16V
C9108	1-126-935-11	ELECT	470UF	20.00%	16V
C9109	1-107-963-11	ELECT	33UF	20.00%	160V
C9110	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C9111	1-126-933-11	ELECT	100UF	20.00%	16V
C9112	1-126-933-11	ELECT	100UF	20.00%	16V
C9113	1-126-933-11	ELECT	100UF	20.00%	16V
C9115	1-126-935-11	ELECT	470UF	20.00%	6.3V
C9116	1-126-935-11	ELECT	470UF	20.00%	6.3V
C9117	1-104-999-11	MYLAR	0.1UF	10.00%	200V
C9130	1-130-483-00	MYLAR	0.01UF	5.00%	50V

<LEAD PIN>

CL9101 *	4-042-408-01	PIN, COATING LEAD	
CL9102 *	4-042-408-01	PIN, COATING LEAD	
CL9103 *	4-042-408-01	PIN, COATING LEAD	

<CONNECTOR>

CN9101*	1-564-506-11	PLUG, CONNECTOR 3P
CN9102*	1-564-512-11	PLUG, CONNECTOR 9P
CN9104*	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P

<DIODE>

D9101	8-719-924-11	DIODE MTZJ-T-77-22
D9102	8-719-924-11	DIODE MTZJ-T-77-22
D9103	1-216-295-91	SHORT CHIP 0
D9104	8-719-081-97	DIODE MMDL914T1
D9105	8-719-081-97	DIODE MMDL914T1
D9106	8-719-081-97	DIODE MMDL914T1
D9107	8-719-510-02	DIODE D1NS4-TR

REF. NO.	PART NO.	DESCRIPTION			REMARK

<COIL>

L9101	1-412-525-31	INDUCTOR	10UH

<TRANSISTOR>

Q9101	8-729-045-05	TRANSISTOR 2SA2005
Q9102	8-729-045-04	TRANSISTOR 2SC5511
Q9105	8-729-010-25	TRANSISTOR MSD601-RT1
Q9106	8-729-010-05	TRANSISTOR MSB709-RT1
Q9107	8-729-010-25	TRANSISTOR MSD601-RT1
Q9108	8-729-010-05	TRANSISTOR MSB709-RT1
Q9109	8-729-122-63	TRANSISTOR 2SA1226-T1E4

<RESISTOR>

R9101	1-216-431-11	METAL OXIDE	560	5%	1W
R9102	1-249-414-11	CARBON	560	5%	1/4W
R9103	1-249-432-11	CARBON	18K	5%	1/4W
R9104	1-249-432-11	CARBON	18K	5%	1/4W
R9105	1-249-414-11	CARBON	560	5%	1/4W
R9106	1-249-421-11	CARBON	2.2K	5%	1/4W
R9107	1-249-421-11	CARBON	2.2K	5%	1/4W
R9108	1-247-735-11	CARBON	47	5%	1/2W
R9109	1-249-383-11	CARBON	1.5	5%	1/4W
R9110	1-249-383-11	CARBON	1.5	5%	1/4W
R9111	1-249-401-11	CARBON	47	5%	1/4W
R9112	1-215-917-11	METAL OXIDE	1K	5%	3W
R9113	1-216-017-91	RES-CHIP	47	5%	1/10W
R9114	1-249-421-11	CARBON	2.2K	5%	1/4W
R9115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9117	1-216-047-91	RES-CHIP	820	5%	1/10W
R9122	1-216-045-00	RES-CHIP	680	5%	1/10W
R9123	1-249-401-11	CARBON	47	5%	1/4W
R9124	1-249-401-11	CARBON	47	5%	1/4W
R9125	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9126	1-249-385-11	CARBON	2.2	5%	1/4W
R9127	1-216-298-00	RES-CHIP	2.2	5%	1/10W
R9128	1-216-295-91	SHORT CHIP	0		
R9129	1-216-033-00	RES-CHIP	220	5%	1/10W

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* A-1401-753-A DC BOARD, MOUNT(KV-HS34)
****
* A-1401-846-A DC BOARD, MOUNT(KV-HS38)
****
* A-1401-880-A DC BOARD, MOUNT(KV-HS29)
****

4-382-854-11 SCREW (M3X10), P, SW (+)
4-382-854-21 SCREW (M3X14), P, SW (+)

<CAPACITOR>

C5400	1-104-666-11	ELECT	220UF	20.00%	25V
C5401	1-126-947-11	ELECT	47UF	20.00%	25V
C5402	1-136-177-00	FILM	1UF	5.00%	50V
C5403	1-104-666-11	ELECT	220UF	20.00%	25V
C5404	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	25V
C5405	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	50V
C5412	1-136-177-00	FILM	1UF	5.00%	50V
C5415	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C5421	1-164-677-11	CERAMIC CHIP	0.033UF	10.00%	16V
C5424	1-164-677-11	CERAMIC CHIP	0.033UF	10.00%	16V
C5427	1-136-171-00	FILM	0.33UF	5.00%	50V
C5430	1-164-388-91	CERAMIC CHIP	270PF	5.00%	50V
C5433	1-136-165-00	FILM	0.1UF	5.00%	50V
C5439	1-126-933-11	ELECT	100UF	20.00%	16V
C5442	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C5445	1-126-933-11	ELECT	100UF	20.00%	16V
C5703	1-126-964-11	ELECT	10UF	20.00%	50V
C5707	1-136-495-11	FILM	0.068UF	5.00%	50V
C5708	1-107-909-11	ELECT	47UF	20.00%	16V

DC

REF. NO.	PART NO.	DESCRIPTION		REMARK
C5709	1-126-964-11	ELECT	10UF	20.00% 50V
C5710	1-126-964-11	ELECT	10UF	20.00% 50V
C5711	1-107-909-11	ELECT	47UF	20.00% 16V
C5713	1-126-947-11	ELECT	47UF	20.00% 25V
C5714	1-107-909-11	ELECT	47UF	20.00% 16V
C5801	1-126-967-11	ELECT	47UF	20.00% 50V
C5802	1-126-960-11	ELECT	1UF	20.00% 50V
C5804	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5805	1-126-964-11	ELECT	10UF	20.00% 50V
C5806	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5807	1-126-933-11	ELECT	100UF	20.00% 16V
C5808	1-117-722-11	ELECT	2200UF	20.00% 10V
C5809	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5810	1-126-964-11	ELECT	10UF	20.00% 50V
C5818	1-126-947-11	ELECT	47UF	20.00% 16V
C5819	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5822	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5824	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5825	1-126-947-11	ELECT	47UF	20.00% 25V
C5827	1-126-947-11	ELECT	47UF	20.00% 25V
C5829	1-136-165-00	FILM	0.1UF	5.00% 50V
C5830	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5831	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5832	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5833	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5834	1-126-947-11	ELECT	47UF	20.00% 25V
C5835	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5836	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5837	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5838	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5839	1-126-947-11	ELECT	47UF	20.00% 25V
C5840	1-126-947-11	ELECT	47UF	20.00% 25V
C5841	1-136-165-00	FILM	0.1UF	5.00% 50V
C5842	1-136-165-00	FILM	0.1UF	5.00% 50V
C5843	1-136-165-00	FILM	0.1UF	5.00% 50V
C5844	1-136-165-00	FILM	0.1UF	5.00% 50V
C5847	1-126-947-11	ELECT	47UF	20.00% 25V
C5851	1-126-960-11	ELECT	1UF	20.00% 50V
C5852	1-136-165-00	FILM	0.1UF	5.00% 50V
C5853	1-136-153-00	FILM	0.01UF	5.00% 50V
C5854	1-104-760-11	CERAMIC CHIP	0.047UF	10.00% 50V
C5855	1-126-964-11	ELECT	10UF	20.00% 50V
C5856	1-126-964-11	ELECT	10UF	20.00% 50V
C5859	1-126-964-11	ELECT	10UF	20.00% 50V
C5860	1-126-947-11	ELECT	47UF	20.00% 10V

<CONNECTOR>

CN5403*	1-564-506-11	PLUG, CONNECTOR 3P	
CN5510*	1-564-506-11	PLUG, CONNECTOR 3P	
CN5801*	1-564-506-11	PLUG, CONNECTOR 3P	
CN5802	1-564-505-11	PLUG, CONNECTOR 2P	
CN5803*	1-564-512-11	PLUG, CONNECTOR 9P	
CN5805*	1-564-506-11	PLUG, CONNECTOR 3P	
CN5806*	1-564-507-11	PLUG, CONNECTOR 4P	
CN5807	1-564-507-11	PLUG, CONNECTOR 4P	
CN5808*	1-564-511-11	PLUG, CONNECTOR 8P	
CN5809	1-564-505-21	PLUG, CONNECTOR 2P	
CN5901*	1-564-508-11	PLUG, CONNECTOR 5P	

<DIODE>

D5400	8-719-110-31	DIODE MTZJ-T-77-12B
D5403	8-719-110-31	DIODE MTZJ-T-77-12B
D5602	8-719-109-60	DIODE RD2.7ES-T1B
D5603	8-719-914-43	DIODE DAN202K-T-146
D5604	8-719-911-19	DIODE 1SS119-25TD
D5801	8-719-404-50	DIODE MA111-TX
D5802	8-719-404-50	DIODE MA111-TX
D5803	8-719-404-50	DIODE MA111-TX
D5804	8-719-404-50	DIODE MA111-TX
D5805	8-719-069-54	DIODE UDZSTE-175.1B
D5807	8-719-404-50	DIODE MA111-TX
D5808	8-719-110-57	DIODE RD22ES-T1B2

<IC>

IC5400	8-749-016-08	IC STK390-910
IC5402	8-759-700-07	IC NJM2903M
IC5403	8-759-595-52	IC CXA8070AP
IC5601	8-759-822-38	IC LA6510
IC5701	8-759-325-48	IC CA0005AD
IC5801	8-759-700-78	IC TL082CPS-E20
IC5802	8-752-072-94	IC CXA1875AM-T4
IC5803	8-759-701-01	IC NJM2904M(TE2)
IC5804	8-759-701-01	IC NJM2904M(TE2)
IC5805	8-759-701-01	IC NJM2904M(TE2)
IC5806	8-759-671-97	IC MC74HC4316AFEL
IC5807	8-759-701-01	IC NJM2904M(TE2)
IC5808	8-759-251-31	IC CA0007AM
IC5809	8-759-803-42	IC LA6500-FA
IC5810	8-759-701-01	IC NJM2904M(TE2)
IC5811	8-759-822-07	IC LA6515
IC5812	8-759-822-07	IC LA6515
IC5813	8-759-701-79	IC NJM7812FA
IC5814	8-759-929-65	IC NJM79M12FA
IC5815	8-759-251-31	IC CA0007AM
IC5816	8-759-251-31	IC CA0007AM
IC5817	8-752-074-64	IC CXA2026AS

<CHIP CONDUCTOR>

JR5803	1-216-295-91	SHORT CHIP 0

<COIL>

L5400	1-408-612-31	INDUCTOR 56UH

<IC LINK>

PS5801⚠	1-532-686-21	LINK, IC 2.7A/50V
PS5802⚠	1-532-686-21	LINK, IC 2.7A/50V

<TRANSISTOR>

Q5402	8-729-422-33	TRANSISTOR 2SD601A-Q-TA
Q5403	8-729-216-22	TRANSISTOR 2SA1162-G
Q5602	8-729-216-22	TRANSISTOR 2SA1162-G
Q5603	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L
Q5604	8-729-216-22	TRANSISTOR 2SA1162-G
Q5801	8-729-422-33	TRANSISTOR 2SD601A-Q-TA
Q5806	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5807	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5808	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5809	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5810	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5811	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5813	8-729-041-23	TRANSISTOR NDS356AP
Q5814	8-729-041-24	TRANSISTOR NDS355AN
Q5815	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q5816	8-729-027-38	TRANSISTOR DTA144EKA-T146

<RESISTOR>

R5400	1-216-864-11	SHORT CHIP	0		
R5402	1-218-749-11	METAL CHIP	240K	0.5%	1/16W
R5403	1-260-288-11	CARBON	0.47	5%	1/2W
R5405	1-216-849-11	CARBON	220K	5%	1/10W
R5406	1-260-288-11	CARBON	0.47	5%	1/2W
R5407	1-217-704-11	CARBON	3.3K	0.5%	1/10W
R5408	1-218-700-11	CARBON	2.2K	0.5%	1/10W
R5409	1-216-843-11	METAL CHIP	68K	5%	1/10W
R5411	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5412	1-216-389-11	METAL OXIDE	1	5%	3W

DC

REF. NO.	PART NO.	DESCRIPTION		REMARK	
R5413	1-218-742-11	METAL CHIP	120K	0.5%	1/10W
R5414	1-216-864-11	SHORT CHIP	0		
R5415	1-215-886-11	METAL OXIDE	100	5%	2W
R5416	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5417	1-218-732-11	METAL CHIP	4.7K	0.5%	1/10W
R5418	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5419	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5421	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R5424	1-218-682-11	METAL CHIP	390 (KV-HS29)	0.5%	1/10W
R5424	1-218-683-11	METAL CHIP	430 (KV-HS34/38)	0.5%	1/10W
R5425	1-216-864-11	SHORT CHIP	0		
R5426	1-216-864-11	SHORT CHIP	0		
R5430	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5433	1-218-697-11	METAL CHIP	1.6K	0.5%	1/16W
R5436	1-218-716-11	METAL CHIP	10K (KV-HS29)	0.5%	1/10W
R5436	1-218-724-11	METAL CHIP	22K (KV-HS34/38)	0.5%	1/16W
R5439	1-216-805-11	METAL CHIP	47	5%	1/10W
R5442	1-216-429-00	METAL OXIDE	270	5%	1W
R5445	1-216-805-11	METAL CHIP	47	5%	1/10W
R5448	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5451	1-218-752-11	METAL CHIP	330K	0.5%	1/10W
R5454	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5801	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5802	1-216-850-11	METAL CHIP	270K	5%	1/10W
R5803	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5804	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5805	1-218-752-11	METAL CHIP	330K (KV-HS34)	0.5%	1/16W
R5805	1-218-768-11	METAL CHIP	470K (KV-HS29/38)	0.5%	1/10W
R5807	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5808	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R5809	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5810	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5811	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R5813	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5817	1-218-728-11	METAL CHIP	33K	0.5%	1/16W
R5818	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R5819	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R5821	1-218-722-11	METAL CHIP	18K	0.5%	1/10W
R5822	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R5823	1-216-809-11	METAL CHIP	100	5%	1/10W
R5824	1-216-809-11	METAL CHIP	100	5%	1/10W
R5826	1-216-295-91	SHORT CHIP	0		
R5829	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5830	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5831	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5832	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5833	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5834	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5835	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5836	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5837	1-216-834-11	METAL CHIP	12K	5%	1/10W
R5838	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5839	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5841	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5842	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5843	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5844	1-218-719-11	METAL CHIP	13K	0.5%	1/16W
R5845	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
R5846	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5847	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5848	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5850	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5851	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5852	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5853	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5854	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5855	1-215-864-00	METAL OXIDE	150	5%	1W
R5856	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R5857	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R5858	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R5859	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R5860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5861	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5862	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R5863	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R5864	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5865	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5866	1-249-383-11	CARBON	1.5	5%	1/4W
R5867	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5869	1-249-383-11	CARBON	1.5	5%	1/4W
R5870	1-249-383-11	CARBON	1.5	5%	1/4W
R5871	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5872	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5873	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5874	1-249-441-11	CARBON	100K	5%	1/4W
R5875	1-215-880-00	METAL OXIDE	10	5%	2W
R5876	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5877	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5878	1-249-383-11	CARBON	1.5	5%	1/4W
R5879	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5880	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5881	1-249-383-11	CARBON	1.5	5%	1/4W
R5882	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5883	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5884	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5885	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5886	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5887	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5888	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5889	1-249-383-11	CARBON	1.5	5%	1/4W
R5890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5893	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5894	1-208-818-11	METAL CHIP	33K (KV-HS38)	0.5%	1/10W
R5894	1-216-691-11	METAL CHIP	47K (KV-HS29/34)	0.5%	1/10W
R5896	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5897	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5898	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5899	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5900	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5901	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5902	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R5903	1-249-383-11	CARBON	1.5	5%	1/4W
R5904	1-249-383-11	CARBON	1.5	5%	1/4W
R5905	1-249-383-11	CARBON	1.5	5%	1/4W
R5906	1-249-383-11	CARBON	1.5	5%	1/4W
R5907	1-249-441-11	CARBON	100K	5%	1/4W
R5908	1-215-859-00	METAL OXIDE	22	5%	1W
R5909	1-249-441-11	CARBON	100K	5%	1/4W
R5910	1-215-859-00	METAL OXIDE	22	5%	1W
R5911	1-249-441-11	CARBON	100K	5%	1/4W
R5912	1-215-859-00	METAL OXIDE	22	5%	1W
R5913	1-249-441-11	CARBON	100K	5%	1/4W
R5914	1-215-859-00	METAL OXIDE	22	5%	1W
R5915	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R5916	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5917	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5918	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5919	1-218-726-11	METAL CHIP	27K	0.5%	1/10W
R5920	1-218-726-11	METAL CHIP	27K	0.5%	1/10W
R5921	1-218-726-11	METAL CHIP	27K	0.5%	1/10W
R5922	1-218-726-11	METAL CHIP	27K	0.5%	1/10W
R5923	1-249-383-11	CARBON	1.5	5%	1/4W
R5924	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5925	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5926	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5927	1-218-692-11	METAL CHIP	1K	0.5%	1/16W

DC J

REF. NO.	PART NO.	DESCRIPTION		REMARK	
R5928	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5929	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5930	1-216-842-11	METAL CHIP	56K	5%	1/10W
R5931	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5932	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5933	1-216-851-11	METAL CHIP	330K	5%	1/10W
R5934	1-216-033-00	RES-CHIP	220	5%	1/10W
R5935	1-216-805-11	METAL CHIP	47	5%	1/10W
R5936	1-216-017-91	RES-CHIP	47	5%	1/10W
R5937	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5938	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5939	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R5940	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R5941	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R5942	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R5943	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5944	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5945	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5946	1-218-722-11	METAL CHIP	18K	0.5%	1/10W
R5947	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5948	1-218-722-11	METAL CHIP	18K	0.5%	1/10W
R5949	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5950	1-216-295-91	SHORT CHIP	0		
R5952	1-216-864-11	SHORT CHIP	0		
R5954	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5955	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5957	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5958	1-216-852-11	METAL CHIP	390K (KV-HS38)	5%	1/10W
R5958	1-216-853-11	METAL CHIP	470K (KV-HS29/34)	5%	110W
R5959	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5960	1-249-389-11	CARBON	4.7	5%	1/4W
R5961	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5962	1-216-852-11	METAL CHIP	390K (KV-HS38)	5%	1/10W
R5962	1-216-853-11	METAL CHIP	470K (KV-HS29/34)	5%	110W
R5965	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5966	1-249-389-11	CARBON	4.7	5%	1/4W
R5969	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5970	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5971	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
R5972	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5973	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5974	1-218-718-11	METAL CHIP	12K	0.5%	1/10W
R5975	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5976	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R5978	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5979	1-216-809-11	METAL CHIP	100	5%	1/10W
R5980	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5981	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5982	1-216-864-11	SHORT CHIP	0		
R5983	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5984	1-216-837-11	METAL CHIP	22K (KV-HS38)	5%	1/10W
R5984	1-216-839-11	METAL CHIP	33K (KV-HS29/34)	5%	1/10W
R5985	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R5986	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5987	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5988	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5989	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5992	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5993	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R5994	1-218-716-11	METAL CHIP	10K (KV-HS34)	0.5%	1/10W
R5994	1-218-722-11	METAL CHIP	18K (KV-HS29)	0.5%	1/10W
R5994	1-218-726-11	METAL CHIP	27K (KV-HS38)	0.5%	1/10W
R5995	1-218-702-11	METAL CHIP	2.7K (KV-HS38)	0.5%	1/10W
R5995	1-218-714-11	METAL CHIP	8.2K (KV-HS29)	0.5%	1/10W
R5995	1-218-716-11	METAL CHIP	10K (KV-HS34)	0.5%	1/10W
R5996	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R5997	1-218-718-11	METAL CHIP	12K (KV-HS34)	0.5%	1/10W
R5997	1-218-722-11	METAL CHIP	18K (KV-HS29)	0.5%	1/10W
R5997	1-218-724-11	METAL CHIP	22K (KV-HS38)	0.5%	1/10W

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* A-1300-848-A J BOARD, COMPL
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<CAPACITOR>

C2001	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2002	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2003	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2004	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2005	1-164-392-11	CERAMIC CHIP	390PF	5.00%	50V
C2006	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2008	1-126-933-11	ELECT	100UF	20.00%	16V
C2009	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2010	1-162-975-11	CERAMIC CHIP	24PF	5.00%	50V
C2011	1-162-975-11	CERAMIC CHIP	24PF	5.00%	50V
C2012	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2013	1-126-947-11	ELECT	47UF	20.00%	16V
C2014	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2015	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2016	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2017	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2018	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2019	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C2020	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2022	1-126-933-11	ELECT	100UF	20.00%	16V
C2023	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2029	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2031	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2032	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2033	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2034	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2035	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2036	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2037	1-126-947-11	ELECT	47UF	20.00%	16V
C2038	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2039	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2040	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2041	1-126-933-11	ELECT	100UF	20.00%	16V
C2042	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2043	1-162-915-11	CERAMIC CHIP	10PF	0.50PF	50V
C2044	1-126-933-11	ELECT	100UF	20.00%	16V
C2045	1-162-915-11	CERAMIC CHIP	10PF	0.50PF	50V
C2046	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2047	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C2048	1-126-964-11	ELECT	10UF	20.00%	50V
C2049	1-165-908-91	CERAMIC CHIP	1UF	10%	10V
C2050	1-162-917-11	CERAMIC CHIP	15PF	5.00%	50V
C2051	1-126-964-11	ELECT	10UF	20.00%	50V
C2053	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C2055	1-126-947-11	ELECT	47UF	20.00%	16V
C2056	1-162-917-11	CERAMIC CHIP	15PF	5.00%	50V
C2058	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2063	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2064	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2066	1-126-947-11	ELECT	47UF	20.00%	16V
C2067	1-126-933-11	ELECT	100UF	20.00%	16V
C2074	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2075	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C2078	1-126-947-11	ELECT	47UF	20.00%	16V
C2079	1-162-974-11	CERAMIC CHIP	0.01UF		50V

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
C2096	1-162-917-11	CERAMIC CHIP	15PF	5.00%	50V
C2097	1-162-917-11	CERAMIC CHIP	15PF	5.00%	50V
C2100	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2101	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2102	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2103	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2104	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C2300	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2301	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2302	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2303	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2304	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2305	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2306	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C2307	1-126-933-11	ELECT	100UF	20.00%	16V
C2308	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2309	1-126-947-11	ELECT	47UF	20.00%	16V
C2310	1-126-947-11	ELECT	47UF	20.00%	16V
C2312	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2313	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2314	1-162-963-11	CERAMIC CHIP	680PF	10.00%	50V
C2315	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C2316	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C2317	1-126-933-11	ELECT	100UF	20.00%	16V
C2318	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C2319	1-162-919-11	CERAMIC CHIP	22PF	5.00%	50V
C2320	1-162-916-11	CERAMIC CHIP	12PF	5.00%	50V
C2321	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C2322	1-162-919-11	CERAMIC CHIP	22PF	5.00%	50V
C2323	1-162-916-11	CERAMIC CHIP	12PF	5.00%	50V
C2324	1-126-947-11	ELECT	47UF	20.00%	16V
C2326	1-126-947-11	ELECT	47UF	20.00%	16V
C2327	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8300	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8301	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8302	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8303	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8304	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8305	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8306	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8307	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8308	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8309	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8310	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8311	1-115-156-11	CERAMIC CHIP	1UF		10V
C8312	1-115-156-11	CERAMIC CHIP	1UF		10V
C8313	1-115-156-11	CERAMIC CHIP	1UF		10V
C8314	1-115-156-11	CERAMIC CHIP	1UF		10V
C8315	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8316	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8317	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8318	1-115-156-11	CERAMIC CHIP	1UF		10V
C8319	1-115-156-11	CERAMIC CHIP	1UF		10V
C8320	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8321	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8322	1-115-156-11	CERAMIC CHIP	1UF		10V
C8323	1-115-156-11	CERAMIC CHIP	1UF		10V
C8324	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8325	1-126-935-11	ELECT	470UF	20.00%	16V
C8326	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8327	1-115-156-11	CERAMIC CHIP	1UF		10V
C8328	1-115-156-11	CERAMIC CHIP	1UF		10V
C8330	1-115-156-11	CERAMIC CHIP	1UF		10V
C8331	1-115-156-11	CERAMIC CHIP	1UF		10V
C8333	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C8336	1-126-947-11	ELECT	47UF	20.00%	16V
C8337	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8338	1-115-156-11	CERAMIC CHIP	1UF		10V
C8339	1-115-156-11	CERAMIC CHIP	1UF		10V
C8340	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8341	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8342	1-126-964-11	ELECT	10UF	20.00%	50V

REF. NO.	PART NO.	DESCRIPTION		REMARK	
C8343	1-126-947-11	ELECT	47UF	20.00%	16V
C8344	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8346	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8347	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8348	1-115-156-11	CERAMIC CHIP	1UF		10V
C8349	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8350	1-115-156-11	CERAMIC CHIP	1UF		10V
C8352	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C8353	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C8354	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8355	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8356	1-115-156-11	CERAMIC CHIP	1UF		10V
C8357	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8358	1-115-156-11	CERAMIC CHIP	1UF		10V
C8359	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C8360	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8361	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8362	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8363	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8364	1-126-947-11	ELECT	47UF	20.00%	16V
C8366	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8367	1-126-947-11	ELECT	47UF	20.00%	16V
C8368	1-126-947-11	ELECT	47UF	20.00%	16V
C8369	1-126-947-11	ELECT	47UF	20.00%	16V
C8370	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8372	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8371	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8373	1-162-915-11	CERAMIC CHIP	10PF	0.50PF	50V
C8374	1-115-156-11	CERAMIC CHIP	1UF		10V
C8375	1-126-964-11	ELECT	10UF	20.00%	50V
C8376	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8377	1-115-156-11	CERAMIC CHIP	1UF		10V
C8378	1-115-156-11	CERAMIC CHIP	1UF		10V
C8380	1-115-156-11	CERAMIC CHIP	1UF		10V
C8381	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8382	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8386	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8390	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8391	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8392	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8393	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8396	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8399	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8401	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8405	1-115-156-11	CERAMIC CHIP	1UF		10V
C8406	1-126-947-11	ELECT	47UF	20.00%	16V
C8407	1-126-947-11	ELECT	47UF	20.00%	16V
C8408	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8409	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C8410	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8412	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8414	1-126-947-11	ELECT	47UF	20.00%	16V
C8415	1-115-156-11	CERAMIC CHIP	1UF		10V
C8416	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8417	1-162-915-11	CERAMIC CHIP	10PF	0.50PF	50V
C8418	1-126-964-11	ELECT	10UF	20.00%	50V
C8419	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8420	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8421	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8423	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8424	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8425	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8437	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8438	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8439	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8440	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8441	1-115-156-11	CERAMIC CHIP	1UF		10V
C8445	1-115-156-11	CERAMIC CHIP	1UF		10V
C8446	1-126-947-11	ELECT	47UF	20.00%	16V
C8447	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C8450	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C8451	1-164-505-11	CERAMIC CHIP	2.2UF		16V

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C8452	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8453	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8454	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8455	1-126-947-11	ELECT	47UF 20.00% 16V	
C8456	1-126-947-11	ELECT	47UF 20.00% 16V	
C8457	1-126-947-11	ELECT	47UF 20.00% 16V	
C8459	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8488	1-115-156-11	CERAMIC CHIP	1UF 10V	
C8489	1-115-156-11	CERAMIC CHIP	1UF 10V	
C8491	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8494	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8497	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8499	1-126-947-11	ELECT	47UF 20.00% 16V	
C8500	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8520	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8521	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8701	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	
C8702	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	
C8703	1-115-156-11	CERAMIC CHIP	1UF 10V	
C8704	1-115-156-11	CERAMIC CHIP	1UF 10V	
C8801	1-126-947-11	ELECT	47UF 20.00% 16V	
C8802	1-126-947-11	ELECT	47UF 20.00% 16V	
C8803	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8804	1-126-947-11	ELECT	47UF 20.00% 16V	
C8806	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8808	1-126-947-11	ELECT	47UF 20.00% 16V	
C8812	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8814	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V	
C8815	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V	
C8816	1-126-964-11	ELECT	10UF 20.00% 50V	
C8817	1-126-964-11	ELECT	10UF 20.00% 50V	
C8818	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V	
C8819	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V	
C8820	1-126-947-11	ELECT	47UF 20.00% 16V	
C8821	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8822	1-126-947-11	ELECT	47UF 20.00% 16V	
C8823	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8826	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8827	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V	
C8828	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V	
C8829	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8870	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8871	1-126-947-11	ELECT	47UF 20.00% 16V	
C8872	1-126-947-11	ELECT	47UF 20.00% 16V	
C8873	1-126-947-11	ELECT	47UF 20.00% 16V	
C8874	1-126-947-11	ELECT	47UF 20.00% 16V	
C8875	1-126-947-11	ELECT	47UF 20.00% 16V	
C8876	1-126-947-11	ELECT	47UF 20.00% 16V	
C8877	1-126-947-11	ELECT	47UF 20.00% 16V	
C8882	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8885	1-125-837-91	CERAMIC CHIP	1UF 10% 6.3V	
C8886	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8887	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8888	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8889	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8890	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8891	1-164-156-11	CERAMIC CHIP	0.1UF 25V	
C8892	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V	
C8893	1-126-964-11	ELECT	10UF 20.00% 50V	
C8894	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	
C8895	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	

<CONNECTOR>

CN8301*	1-564-524-11	PLUG, CONNECTOR 9P	
CN8302	1-695-915-11	TAB (CONTACT)	
CN8304*	1-785-303-11	CONNECTOR, DIN (PLUG) 64P	

<DIODE>

D8301	8-719-158-35	DIODE RD9.1SB-T1	
D8302	8-719-158-35	DIODE RD9.1SB-T1	
D8303	8-719-158-35	DIODE RD9.1SB-T1	
D8304	8-719-158-35	DIODE RD9.1SB-T1	
D8305	8-719-158-35	DIODE RD9.1SB-T1	
D8306	8-719-158-35	DIODE RD9.1SB-T1	
D8307	8-719-158-35	DIODE RD9.1SB-T1	
D8308	8-719-158-35	DIODE RD9.1SB-T1	
D8309	8-719-158-35	DIODE RD9.1SB-T1	
D8310	8-719-158-35	DIODE RD9.1SB-T1	
D8311	8-719-158-35	DIODE RD9.1SB-T1	
D8312	8-719-158-35	DIODE RD9.1SB-T1	
D8313	8-719-158-35	DIODE RD9.1SB-T1	
D8314	8-719-158-35	DIODE RD9.1SB-T1	
D8318	8-719-158-35	DIODE RD9.1SB-T1	
D8319	8-719-158-35	DIODE RD9.1SB-T1	
D8320	8-719-158-35	DIODE RD9.1SB-T1	
D8321	8-719-158-35	DIODE RD9.1SB-T1	
D8322	8-719-158-35	DIODE RD9.1SB-T1	
D8323	8-719-158-35	DIODE RD9.1SB-T1	
D8324	8-719-158-35	DIODE RD9.1SB-T1	
D8325	8-719-158-35	DIODE RD9.1SB-T1	
D8326	8-719-158-35	DIODE RD9.1SB-T1	
D8331	8-719-081-97	DIODE MMDL914T1	
D8332	8-719-036-94	DIODE RD5.6SB-T1	
D8701	8-719-158-35	DIODE RD9.1SB-T1	
D8702	8-719-158-35	DIODE RD9.1SB-T1	

<FERRITE BEAD>

FB2001	1-414-234-22	FERRITE	0UH
FB2002	1-414-229-11	FERRITE	0UH
FB2003	1-414-229-11	FERRITE	0UH
FB2004	1-216-295-91	SHORT CHIP	0
FB2006	1-414-228-11	FERRITE	0UH
FB2007	1-414-228-11	FERRITE	0UH
FB2008	1-414-234-22	FERRITE	0UH
FB2009	1-414-228-11	FERRITE	0UH
FB2010	1-414-228-11	FERRITE	0UH
FB2011	1-414-228-11	FERRITE	0UH
FB2012	1-414-229-11	FERRITE	0UH
FB2013	1-414-228-11	FERRITE	0UH
FB2301	1-414-228-11	FERRITE	0UH
FB2302	1-414-234-22	FERRITE	0UH
FB8802	1-414-553-11	FERRITE	0UH

<FILTER>

FL2001	1-239-848-11	FILTER, LOW PASS
FL2002	1-239-848-11	FILTER, LOW PASS
FL2003	1-239-848-11	FILTER, LOW PASS
FL2004	1-239-848-11	FILTER, LOW PASS
FL8301	1-236-071-11	ENCAPSULATED COMPONENT
FL8303	1-236-071-11	ENCAPSULATED COMPONENT
FL8304	1-236-071-11	ENCAPSULATED COMPONENT
FL8305	1-236-071-11	ENCAPSULATED COMPONENT
FL8307	1-236-071-11	ENCAPSULATED COMPONENT
FL8308	1-236-071-11	ENCAPSULATED COMPONENT
FL8309	1-236-071-11	ENCAPSULATED COMPONENT
FL8311	1-236-071-11	ENCAPSULATED COMPONENT

<IC>

IC2001	6-700-399-01	IC UPC2925T-E1
IC2004	6-700-960-01	IC UPD64083GF-3BA
IC2005	8-759-431-14	IC PQ3DZ53U
IC2300	6-701-972-01	IC TC90A69F (ELP)
IC8302	8-752-080-04	IC CXA2069Q
IC8304	8-759-576-72	IC LF50CDT-TR
IC8305	8-759-576-72	IC LF50CDT-TR
IC8306	8-752-099-05	IC CXA2163AQ-T6
IC8308	8-752-099-05	IC CXA2163AQ-T6
IC8309	8-759-337-26	IC MM1115XFBE
IC8310	8-759-572-04	IC TDA9178T/N1.118
IC8312	8-759-485-79	IC TC7SET08FU(TE85R)

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REF. NO.	PART NO.	DESCRIPTION	REMARK
IC8801	8-759-450-93	IC NJM2521M-TE1	
IC8802	8-759-450-93	IC NJM2521M-TE1	
IC8805	8-752-103-44	IC CXA2171Q	
IC8870	8-759-548-56	IC M52055FP	
IC8871	8-759-595-97	IC SN74LV4053ANSR	
IC8872	8-759-485-79	IC TC7SET08FU(TE85R)	

<JACK>

J8301	1-774-748-11	TERMINAL BLOCK, S(VIDEO IN1)	
J8302	1-774-746-11	JACK BLOCK, PIN(VIDEO IN2)	
J8303	1-774-746-11	JACK BLOCK, PIN(VIDEO IN13)	
J8304	1-774-746-11	JACK BLOCK, PIN(MONITOR OUT)	
J8305	1-695-444-11	PIN JACK BLOCK 3P(COMPONENT IN1)	
J8306	1-816-597-11	PIN JACK BLOCK 2P(SYNC IN)	
J8307	1-565-838-11	JACK BLOCK, PIN 2P( )	
J8308	1-695-444-11	PIN JACK BLOCK 3P(COMPONENT IN2)	
J8309	1-565-838-11	JACK BLOCK, PIN 2P( )	

<COIL>

L2001	1-469-555-21	INDUCTOR	10UH
L2002	1-412-002-31	INDUCTOR	4.7UH
L2003	1-469-555-21	INDUCTOR	10UH
L2005	1-469-555-21	INDUCTOR	10UH
L2007	1-469-555-21	INDUCTOR	10UH
L2008	1-469-555-21	INDUCTOR	10UH
L2300	1-412-029-11	INDUCTOR	10UH
L2301	1-412-032-11	INDUCTOR	100UH
L2302	1-412-032-11	INDUCTOR	100UH
L2303	1-412-031-11	INDUCTOR	47UH
L2304	1-469-756-31	INDUCTOR	27UH
L2305	1-469-756-31	INDUCTOR	27UH
L2306	1-412-029-11	INDUCTOR	10UH
L8802	1-469-555-21	INDUCTOR	10UH
L8803	1-412-029-11	INDUCTOR	10UH
L8804	1-412-029-11	INDUCTOR	10UH
L8870	1-412-029-11	INDUCTOR	10UH
L8871	1-412-029-11	INDUCTOR	10UH
L8872	1-412-029-11	INDUCTOR	10UH

<TRANSISTOR>

Q2002	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2003	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2004	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2005	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2006	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2007	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2008	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2009	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2010	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2011	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2012	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2013	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2014	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2015	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2016	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2018	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2019	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2301	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2302	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2303	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2304	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2305	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2306	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2307	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2308	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q2309	8-729-905-35	TRANSISTOR 2SC4081T106R
Q2310	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8301	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8302	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8303	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8304	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8305	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8306	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8308	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8309	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8310	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8311	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8312	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8313	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8316	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8319	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8320	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8321	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8322	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8326	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8327	8-729-421-19	TRANSISTOR UN2213-TX
Q8328	8-729-421-19	TRANSISTOR UN2213-TX
Q8329	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8330	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8331	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8332	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8333	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8334	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8335	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8336	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8342	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8343	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8361	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8362	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8363	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8364	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8401	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8402	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8403	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8404	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8405	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8406	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8407	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8408	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8409	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8410	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8463	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8464	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8465	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8466	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8801	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8802	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8803	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8804	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8805	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8806	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8807	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR
Q8808	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8809	8-729-905-35	TRANSISTOR 2SC4081T106R
Q8870	8-729-905-35	TRANSISTOR 2SC4081T106R

<RESISTOR>

R2002	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2011	1-216-817-11	METAL CHIP	470	5%	1/10W
R2015	1-216-817-11	METAL CHIP	470	5%	1/10W
R2021	1-216-809-11	METAL CHIP	100	5%	1/10W
R2022	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R2023	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R2027	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2028	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2029	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2030	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2031	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R2032	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R2033	1-216-817-11	METAL CHIP	470	5%	1/10W
R2034	1-216-817-11	METAL CHIP	470	5%	1/10W
R2035	1-218-839-11	METAL CHIP	470	0.5%	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
R2036	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R2037	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2039	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2040	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R2041	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2042	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2044	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R2046	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2047	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2048	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2049	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2050	1-216-805-11	METAL CHIP	47	5%	1/10W
R2051	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2052	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2053	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2054	1-218-839-11	METAL CHIP	47	5%	1/10W
R2055	1-216-805-11	METAL CHIP	47	5%	1/10W
R2056	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R2057	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2058	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2059	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2060	1-216-809-11	METAL CHIP	100	5%	1/10W
R2061	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2062	1-216-849-11	METAL CHIP	220K	5%	1/10W
R2063	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R2064	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2066	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R2067	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2069	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R2070	1-218-678-11	METAL CHIP	270	0.5%	1/16W
R2071	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R2072	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R2073	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2074	1-216-809-11	METAL CHIP	100	5%	1/10W
R2076	1-216-809-11	METAL CHIP	100	5%	1/10W
R2077	1-216-809-11	METAL CHIP	100	5%	1/10W
R2108	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2115	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2301	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2306	1-218-837-11	METAL CHIP	390	0.5%	1/10W
R2307	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2308	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R2309	1-218-849-11	METAL CHIP	1.2K	0.5%	1/10W
R2310	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R2311	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2313	1-216-864-11	SHORT CHIP	0		
R2314	1-218-837-11	METAL CHIP	390	0.5%	1/10W
R2315	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2319	1-218-845-11	METAL CHIP	820	0.5%	1/10W
R2320	1-218-849-11	METAL CHIP	1.2K	0.5%	1/10W
R2321	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2322	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R2323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2324	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2325	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R2327	1-216-805-11	METAL CHIP	47	5%	1/10W
R2328	1-216-805-11	METAL CHIP	47	5%	1/10W
R2330	1-216-815-11	METAL CHIP	330	5%	1/10W
R2331	1-216-864-11	SHORT CHIP	0		
R2333	1-216-809-11	METAL CHIP	100	5%	1/10W
R2334	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2335	1-216-864-11	SHORT CHIP	0		
R2336	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2337	1-216-864-11	SHORT CHIP	0		
R2338	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8210	1-216-809-11	METAL CHIP	100	5%	1/10W
R8211	1-216-809-11	METAL CHIP	100	5%	1/10W
R8212	1-216-809-11	METAL CHIP	100	5%	1/10W
R8213	1-216-809-11	METAL CHIP	100	5%	1/10W
R8301	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R8302	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R8303	1-211-989-11	METAL CHIP	68	0.5%	1/10W
R8304	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8305	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R8306	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8307	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8308	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8309	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8310	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8311	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8312	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8313	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8314	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8315	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8316	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R8317	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8318	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8319	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8320	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8321	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8322	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8323	1-216-864-11	SHORT CHIP	0		
R8324	1-216-864-11	SHORT CHIP	0		
R8325	1-216-864-11	SHORT CHIP	0		
R8326	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R8327	1-216-864-11	SHORT CHIP	0		
R8328	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R8329	1-218-911-11	METAL CHIP	470K	0.5%	1/10W
R8330	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8331	1-216-864-11	SHORT CHIP	0		
R8332	1-216-864-11	SHORT CHIP	0		
R8333	1-216-864-11	SHORT CHIP	0		
R8334	1-216-864-11	SHORT CHIP	0		
R8335	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8336	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8337	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8338	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8339	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8340	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8341	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8343	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8344	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8345	1-216-813-11	METAL CHIP	220	5%	1/10W
R8346	1-216-812-11	METAL CHIP	180	5%	1/10W
R8347	1-216-809-11	METAL CHIP	100	5%	1/10W
R8348	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8349	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8350	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8351	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8352	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8353	1-216-805-11	METAL CHIP	47	5%	1/10W
R8354	1-216-805-11	METAL CHIP	47	5%	1/10W
R8355	1-216-864-11	SHORT CHIP	0		
R8356	1-216-864-11	SHORT CHIP	0		
R8357	1-216-805-11	METAL CHIP	47	5%	1/10W
R8358	1-216-805-11	METAL CHIP	47	5%	1/10W
R8361	1-216-805-11	METAL CHIP	47	5%	1/10W
R8362	1-216-805-11	METAL CHIP	47	5%	1/10W
R8363	1-211-989-11	METAL CHIP	68	0.5%	1/10W
R8364	1-216-817-11	METAL CHIP	470	5%	1/10W
R8365	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8366	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8367	1-216-817-11	METAL CHIP	470	5%	1/10W
R8368	1-216-809-11	METAL CHIP	100	5%	1/10W
R8369	1-216-817-11	METAL CHIP	470	5%	1/10W
R8370	1-216-809-11	METAL CHIP	100	5%	1/10W
R8376	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8377	1-216-809-11	METAL CHIP	100	5%	1/10W
R8378	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8379	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8380	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
R8381	1-216-809-11	METAL CHIP	100	5%	1/10W
R8382	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8383	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8384	1-216-809-11	METAL CHIP	100	5%	1/10W
R8385	1-216-809-11	METAL CHIP	100	5%	1/10W
R8386	1-216-809-11	METAL CHIP	100	5%	1/10W
R8388	1-216-864-11	SHORT CHIP	0		
R8389	1-216-817-11	METAL CHIP	470	5%	1/10W
R8395	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8396	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8398	1-216-809-11	METAL CHIP	100	5%	1/10W
R8399	1-216-809-11	METAL CHIP	100	5%	1/10W
R8400	1-216-809-11	METAL CHIP	100	5%	1/10W
R8401	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8402	1-216-809-11	METAL CHIP	100	5%	1/10W
R8403	1-216-817-11	METAL CHIP	470	5%	1/10W
R8404	1-216-813-11	METAL CHIP	220	5%	1/10W
R8405	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8406	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8407	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8408	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8409	1-216-864-11	SHORT CHIP	0		
R8410	1-216-864-11	SHORT CHIP	0		
R8411	1-216-838-11	METAL CHIP	27K	5%	1/10W
R8412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8413	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R8414	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R8415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8416	1-216-817-11	METAL CHIP	470	5%	1/10W
R8417	1-216-809-11	METAL CHIP	100	5%	1/10W
R8418	1-216-809-11	METAL CHIP	100	5%	1/10W
R8419	1-216-805-11	METAL CHIP	47	5%	1/10W
R8420	1-216-805-11	METAL CHIP	47	5%	1/10W
R8421	1-216-864-11	SHORT CHIP	0		
R8422	1-216-864-11	SHORT CHIP	0		
R8423	1-216-864-11	SHORT CHIP	0		
R8424	1-216-838-11	METAL CHIP	27K	5%	1/10W
R8425	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8426	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R8427	1-216-864-11	SHORT CHIP	0		
R8428	1-216-809-11	METAL CHIP	100	5%	1/10W
R8429	1-216-820-11	METAL CHIP	820	5%	1/10W
R8430	1-216-810-11	METAL CHIP	120	5%	1/10W
R8436	1-216-817-11	METAL CHIP	470	5%	1/10W
R8437	1-216-817-11	METAL CHIP	470	5%	1/10W
R8438	1-216-817-11	METAL CHIP	470	5%	1/10W
R8439	1-216-809-11	METAL CHIP	100	5%	1/10W
R8440	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8441	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8442	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8443	1-216-809-11	METAL CHIP	100	5%	1/10W
R8444	1-216-809-11	METAL CHIP	100	5%	1/10W
R8446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8447	1-216-809-11	METAL CHIP	100	5%	1/10W
R8448	1-216-809-11	METAL CHIP	100	5%	1/10W
R8449	1-216-809-11	METAL CHIP	100	5%	1/10W
R8456	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8457	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8458	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8459	1-216-809-11	METAL CHIP	100	5%	1/10W
R8460	1-216-809-11	METAL CHIP	100	5%	1/10W
R8461	1-216-809-11	METAL CHIP	100	5%	1/10W
R8464	1-216-809-11	METAL CHIP	100	5%	1/10W
R8465	1-216-809-11	METAL CHIP	100	5%	1/10W
R8466	1-216-809-11	METAL CHIP	100	5%	1/10W
R8467	1-216-817-11	METAL CHIP	470	5%	1/10W
R8468	1-216-817-11	METAL CHIP	470	5%	1/10W
R8469	1-216-817-11	METAL CHIP	470	5%	1/10W
R8470	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R8471	1-216-809-11	METAL CHIP	100	5%	1/10W
R8473	1-216-809-11	METAL CHIP	100	5%	1/10W
R8478	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8479	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8480	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8481	1-216-844-11	METAL CHIP	82K	5%	1/10W
R8482	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8484	1-218-843-11	METAL CHIP	680	0.5%	1/10W
R8485	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R8486	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8487	1-218-843-11	METAL CHIP	680	0.5%	1/10W
R8488	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R8489	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8490	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8491	1-216-809-11	METAL CHIP	100	5%	1/10W
R8492	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R8493	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8494	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R8495	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8496	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8497	1-216-809-11	METAL CHIP	100	5%	1/10W
R8498	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R8499	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8500	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R8501	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8504	1-216-809-11	METAL CHIP	100	5%	1/10W
R8505	1-216-809-11	METAL CHIP	100	5%	1/10W
R8506	1-216-809-11	METAL CHIP	100	5%	1/10W
R8507	1-216-809-11	METAL CHIP	100	5%	1/10W
R8508	1-216-809-11	METAL CHIP	100	5%	1/10W
R8509	1-216-817-11	METAL CHIP	470	5%	1/10W
R8510	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R8511	1-216-817-11	METAL CHIP	470	5%	1/10W
R8512	1-216-805-11	METAL CHIP	47	5%	1/10W
R8513	1-216-817-11	METAL CHIP	470	5%	1/10W
R8514	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R8515	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R8516	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R8517	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8518	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8519	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8536	1-216-809-11	METAL CHIP	100	5%	1/10W
R8549	1-216-809-11	METAL CHIP	100	5%	1/10W
R8550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8551	1-216-804-11	METAL CHIP	39	5%	1/10W
R8559	1-216-809-11	METAL CHIP	100	5%	1/10W
R8560	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8561	1-216-804-11	METAL CHIP	39	5%	1/10W
R8569	1-216-809-11	METAL CHIP	100	5%	1/10W
R8570	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8571	1-216-804-11	METAL CHIP	39	5%	1/10W
R8576	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R8578	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R8579	1-216-864-11	SHORT CHIP	0		
R8582	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R8583	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R8584	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R8585	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R8586	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R8587	1-216-864-11	SHORT CHIP	0		
R8588	1-216-864-11	SHORT CHIP	0		
R8589	1-216-864-11	SHORT CHIP	0		
R8590	1-216-864-11	SHORT CHIP	0		
R8591	1-216-864-11	SHORT CHIP	0		
R8592	1-216-864-11	SHORT CHIP	0		
R8704	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8705	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R8706	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8707	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8708	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R8709	1-216-864-11	SHORT CHIP	0		
R8710	1-216-864-11	SHORT CHIP	0		
R8711	1-216-864-11	SHORT CHIP	0		
R8712	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8713	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION		REMARK	
R8801	1-216-809-11	METAL CHIP	100	5%	1/10W
R8802	1-216-809-11	METAL CHIP	100	5%	1/10W
R8803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8804	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8805	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8806	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8807	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8808	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8809	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R8810	1-216-817-11	METAL CHIP	470	5%	1/10W
R8811	1-216-817-11	METAL CHIP	470	5%	1/10W
R8812	1-216-817-11	METAL CHIP	470	5%	1/10W
R8813	1-216-809-11	METAL CHIP	100	5%	1/10W
R8814	1-216-809-11	METAL CHIP	100	5%	1/10W
R8815	1-216-809-11	METAL CHIP	100	5%	1/10W
R8817	1-216-809-11	METAL CHIP	100	5%	1/10W
R8818	1-216-809-11	METAL CHIP	100	5%	1/10W
R8819	1-216-809-11	METAL CHIP	100	5%	1/10W
R8824	1-216-864-11	SHORT CHIP	0		
R8825	1-216-864-11	SHORT CHIP	0		
R8826	1-216-864-11	SHORT CHIP	0		
R8831	1-216-805-11	METAL CHIP	47	5%	1/10W
R8832	1-216-805-11	METAL CHIP	47	5%	1/10W
R8833	1-216-805-11	METAL CHIP	47	5%	1/10W
R8839	1-216-805-11	METAL CHIP	47	5%	1/10W
R8840	1-216-805-11	METAL CHIP	47	5%	1/10W
R8841	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8842	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8843	1-216-864-11	SHORT CHIP	0		
R8844	1-216-809-11	METAL CHIP	100	5%	1/10W
R8846	1-216-809-11	METAL CHIP	100	5%	1/10W
R8847	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8848	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8858	1-216-809-11	METAL CHIP	100	5%	1/10W
R8859	1-216-809-11	METAL CHIP	100	5%	1/10W
R8860	1-216-809-11	METAL CHIP	100	5%	1/10W
R8870	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8871	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8872	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8879	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8880	1-216-805-11	METAL CHIP	47	5%	1/10W
R8881	1-216-809-11	METAL CHIP	100	5%	1/10W
R8882	1-216-805-11	METAL CHIP	47	5%	1/10W
R8884	1-216-851-11	METAL CHIP	330K	5%	1/10W
R8885	1-216-805-11	METAL CHIP	47	5%	1/10W
R8886	1-216-864-11	SHORT CHIP	0		
R8887	1-216-864-11	SHORT CHIP	0		
R8888	1-216-805-11	METAL CHIP	47	5%	1/10W
R8889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8891	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8892	1-216-813-11	METAL CHIP	220	5%	1/10W
R8893	1-216-845-11	METAL CHIP	100K	5%	1/10W

<VARISTOR>

VD8301	1-803-974-21	VARISTOR, CHIP
VD8302	1-803-974-21	VARISTOR, CHIP
VD8303	1-803-974-21	VARISTOR, CHIP
VD8304	1-803-974-21	VARISTOR, CHIP
VD8305	1-803-974-21	VARISTOR, CHIP
VD8306	1-803-974-21	VARISTOR, CHIP
VD8307	1-803-974-21	VARISTOR, CHIP
VD8308	1-803-974-21	VARISTOR, CHIP

<CRYSTAL>

X2001	1-767-606-11	VIBRATOR, CRYSTAL
X8301	1-781-612-11	VIBRATOR, CRYSTAL(16.2MHz)
X8302	1-781-612-11	VIBRATOR, CRYSTAL(16.2MHz)
X8801	1-781-922-21	VIBRATOR, CERAMIC

REF. NO.	PART NO.	DESCRIPTION	REMARK
**********			
		MISCELLANEOUS	
		**********	
	1-452-094-00	CIRCULAR DISC MAGNET B	
	1-452-032-00	MAGNET,DISC	
⚠	8-451-532-11	DY Y34RFC-M(KV-HS34)	
⚠	8-451-533-11	DY Y38RFC-M(KV-HS38)	
⚠	8-451-560-11	DY Y29SEC-T(KV-HS29)	
⚠	8-735-116-05	CRT 34RFN(KV-HS34M90)	
⚠	8-735-122-05	CRT 34RFN(KV-HS34M61)	
⚠	8-735-124-05	CRT 38RFN(KV-HS38M90)	
⚠	8-735-125-05	CRT 29RFN(KV-HS29M90)	
⚠	8-735-126-05	CRT 34RFN(KV-HS34M91)	
⚠	8-735-130-05	CRT 38RFN(KV-HS38M91)	
⚠	8-735-131-05	CRT 38RFN(KV-HS38M61)	
⚠	8-735-139-05	CRT 29RFN(KV-HS29M61/M91)	
*	1-555-110-00	P-P CABLE	
⚠	8-453-009-21	NA325-M2(KV-HS34/38)	
⚠	8-453-022-21	NA2920(KV-HS29)	
	1-251-658-41	SPLITTER RF	
	1-825-227-11	SPEAKER (12CM)	
	1-529-939-11	SPEAKER (9X5CM)	
	1-456-056-11	COIL, LANDING CORRECTION (KV-HS34)	
	1-456-057-11	COIL, LANDING CORRECTION (KV-HS38)	
	1-456-058-11	COIL, LANDING CORRECTION (KV-HS29)	
**********			
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	1-769-175-21	CABLE, ANTENNA (WITH FILTER)	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
*	4-091-319-01	BAG, PROTECTION(KV-HS34)	
*	4-091-530-01	BAG, PROTECTION(KV-HS38)	
	4-074-287-01	JOINT	
	4-090-175-21	MANUAL, INSTRUCTION (ENGLISH/SIMPLIFIED CHINESE/ TRADITIONAL CHINESE)	
	4-090-175-31	MANUAL, INSTRUCTION(ENGLISH)	
	4-090-175-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE/MALAYSIA/ TAI)	
	4-090-175-51	MANUAL, INSTRUCTION (FRENCH/ARABIC)	
*	4-089-784-01	INDIVIDUAL CARTON(KV-HS29)	
*	4-089-785-01	CUSHION, UPPER(KV-HS29)	
*	4-089-786-01	CUSCUSHION, LOWER(KV-HS29)	
*	4-090-280-01	INDIVIDUAL CARTON(KV-HS34)	
*	4-090-281-01	TRAY(KV-HS34)	
*	4-090-282-01	CUSHION, UPPER(KV-HS34)	
*	4-090-283-01	CUSHION, LOWER(KV-HS34)	
*	4-091-319-01	BAG, PROTECTION(KV-HS34)	
*	4-091-482-01	TRAY(KV-HS29)	
*	4-091-484-01	CUSHION, CENTER(KV-HS29)	
*	4-091-525-01	SHEET, PROTECTION(KV-HS38)	
*	4-091-530-01	BAG, PROTECTION(KV-HS38)	
*	4-091-559-01	INDIVIDUAL CARTON(KV-HS38)	
*	4-091-561-01	CUSHION, UPPER(KV-HS38)	
*	4-091-562-01	CUSHION, LOWER(KV-HS38)	
	4-392-003-01	BAND, HOLD	
	4-392-004-01	CLIP	
*	X-4040-624-1	BASE TRAY ASSY(KV-HS38)	
**********			
		REMOTE COMMANDER	
		**********	
	1-477-457-11	STANDARDTYPE COMMANDER(RM-997)	
	9-885-019-97	COVER, BATTERY (FOR RM-997)	

9-965-351-01

Sony EMCS Corporation
Ichinomiya TEC

English
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